

Installation Manual SSB RADIOTELEPHONE FS-1575/2575/5075

		′ INSTRUCTIONSi	
		IENT LIST	
	HO 1.1 1.2 1.3	W TO INSTALL THE SYSTEM Control Unit FS-2575C Antenna Coupler AT-1575 (FS-1575), AT-5075 (FS-2575, FS-5075) Transceiver Unit FS-1575T (FS-1575), FS-2575T (FS-2575), FS-5075T (FS-5075)	.1 .3
	1.4 1.5 1.6	Handset HS-2003	.6 .7
	WIR 2.1 2.2 2.3 2.4 2.5 2.6	ING 1 Antenna Coupler. 1 Transceiver Unit 2 Control Unit 2 External Equipment 2 AC-DC Power Supply Unit PR-300/PR-850A (option). 2 Automatic Antenna Switch AS-102 (option) 3	18 22 25 25 25 28
	INIT 3.1 3.2 3.3 3.4 3.5 3.6	IAL SETTINGS 3 How to Initialize the Control Unit and Transceiver Unit 3 How to Enter MMSI 3 Performance Check 3 System Setup 3 Alarm Contact Signal 4 I/O Data 4	32 32 33 34 44
PAC OUT	KIN Lin	AP- G LISTA- E DRAWINGSD- ONNECTION DIAGRAMS-	-1 -1



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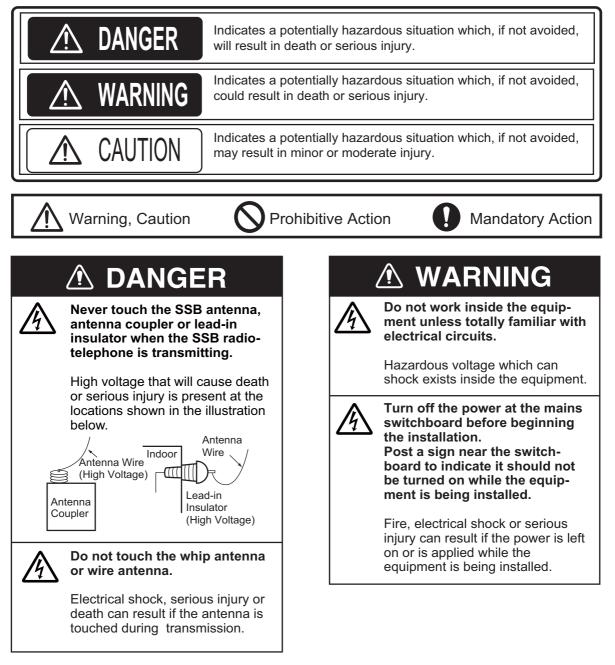
(REFU) FS-1575/2575/5075

A : JUL. 2011 E1 : JUN. 14, 2012



▲ SAFETY INSTRUCTIONS

The installer must read the safety instructions before attempting to install the equipment.

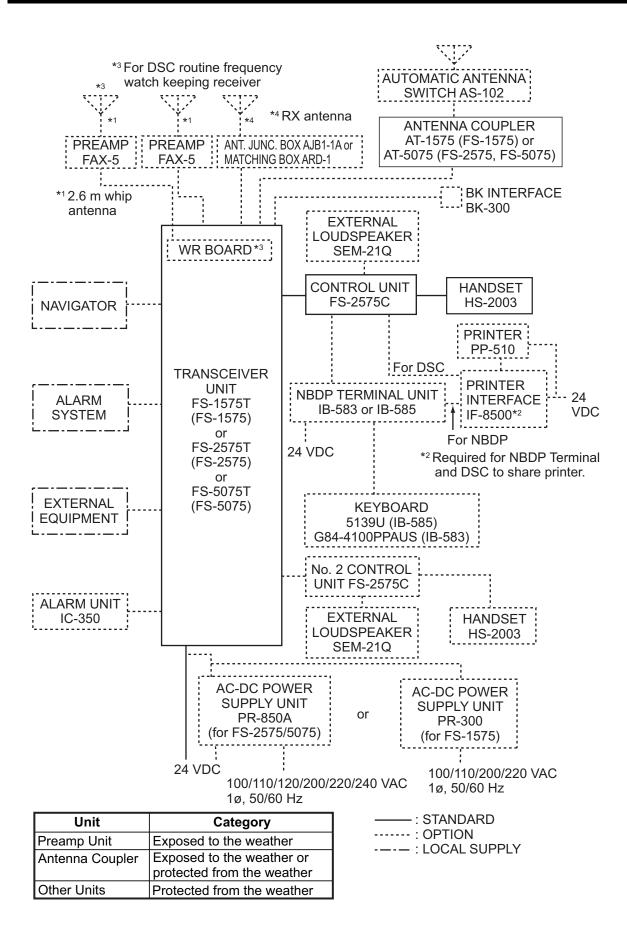


Confirm that the power supply voltage is compatible with the voltage rating of the equipment.					
	Connection to the wrong power supply can cause fire or damage the equipment.				
	Ground the equipment.				
	Ungrounded equipment can give off or receive electromagnetic interference or cause electrical shock.				
0	Handle the copper strap with care.				
	The strap has sharp edges that can cut fingers.				

Follow the compass safe distances to prevent interference to a magnetic compass.

Standard Steering				
Unit	Compass	Steering Compass		
FS-1575T	2.30 m	1.50 m		
FS-2575T	2.40 m	1.50 m		
FS-5075T	2.45 m	1.50 m		
FS-2575C	0.60 m	0.40 m		
HS-2003	1.50 m	0.95 m		
AT-1575-AES	0.85 m	0.55 m		
AT-1575-SUS	0.75 m	0.45 m		
AT-5075	0.80 m	0.50 m		
PP-510	1.00 m	0.80 m		
IC-350	1.20 m	0.75 m		
SEM-21Q	2.20 m	1.50 m		
PR-850A	1.00 m	0.70 m		
IB-583	0.70 m	0.40 m		
IB-585	0.85 m	0.55 m		
AS-102	0.65 m	0.40 m		
IF-8500	1.05 m	0.70 m		
5139U	0.30 m	0.30 m		
PR-300	0.90 m	0.70 m		

SYSTEM CONFIGURATION



EQUIPMENT LIST

Standard Supply

Name	Туре	Code No.	Qty	Rema	arks	
Transceiver	FS-1575T	-		For FS-1575		
Unit	FS-2575T	-	1	For FS-2575	S-2575	
	FS-5075T	-		For FS-5075		
Control Unit	FS-2575C	-	1			
Antenna	AT-1575	-	1	For FS-1575		
Coupler	AT-5075	-		For FS-2575/5075		
Installation Materials	CP05-12100	000-019-245	1	For FS-2575C, no ca CP05-12101	ble, with inst. mat.	
	CP05-12110	000-019-301	1	For FS-2575C, with E cable	DSUB15-5P-L5M	
	CP05-12300	000-019-247		05S0952 *10M*	Between trans-	
	CP05-12310	000-019-248		05S0952 *20M*	ceiver unit & an-	
	CP05-12320	000-192-490	1	05S0952 *30M*	tenna coupler.	
	CP05-12330	000-019-250		05S0952 *40M*		
	CP05-12340	000-019-251		05S0952 *50M*		
	CP05-10800	000-057-435		05S0793 *10M*	Between trans-	
	CP05-10810	000-057-436		05S0793 *20M*	ceiver unit & an- tenna coupler. (w/armor)	
	CP05-10820	000-057-453		05S0793 *30M*		
	CP05-10830	000-057-454		05S0793 *40M*		
	CP05-10840	000-057-455		05S0793 *50M*		
	CP05-12400	000-019-216		DSUB15-5P-L10M	Between trans-	
	CP05-12410	000-019-217		DSUB15-5P-L20M	ceiver unit & con-	
	CP05-12420	000-019-218	1	DSUB15-5P-L30M	trol unit.	
	CP05-12430	000-019-219		DSUB15-5P-L40M		
	CP05-12440	000-019-220		DSUB15-5P-L50M		
	CP05-12001	001-135-560	1	For FS-1575T/2575T	/5075T	
	CP05-12201	001-135-590	1	For AT-1575/5075		
	CP05-12901	001-175-190	1	For AT-1575		
Accessories	FP05-06600	000-019-246	1	Handset HS-2003-15, FP05-05510, FP05-05511		
Spare Parts	SP05-06300	000-020-893	1	For FS-1575,	For HK only	
	SP05-06000	000-019-214	1	For FS-2575]	
	SP05-06100	000-019-215	1	For FS-5075	1	

Optional Equipment

Name	Туре	Code No.	Remarks
Printer	PP-510	-	w/inst. mat. CP16-01200 and accessories FP16-00100
Control Unit	FS-2575C	-	No. 2 Control Unit
Printer Interface	IF-8500	000-053-895	
External Loudspeaker	SEM-21Q	001-165-970-10	

Name	Туре	Code No.	Remarks
Terminal Unit	IB-583	000-043-435	For NBDP
	IB-585	000-020-894	For NBDP, with bracket
		000-021-652	For NBDP, no bracket
Preamp	FAX-5 *15M*	000-011-702	w/15 m cable
	FAX-5 *1M*	000-011-703	w/1 m cable
AC-DC Power	PR-300	000-015-941-10	For FS-1575
Supply Unit	PR-850A	000-057-233	For FS-2575/5075
Matching Box	ARD-1	005-502-230	For matching, w/resistor
Antenna Junction Box	AJB1-1A	000-870-284	For matching, no resistor
Automatic Anten- na Switch	AS-102	000-016-464	Automatic antenna switching
Antenna Switch	AS1-1E	000-167-029-10	Manual antenna switching
BK Interface	BK-300	000-013-305	
Flush Mount Kit	OP05-122	001-135-600	For Control Unit
Watch Receiver Kit	OP05-123	001-135-610	
Connector Set	OP05-124	001-135-620	M-P-7, 2 pcs., FMA-1
Full Duplex Kit	OP05-125	001-135-630	For FS-5075
Waterproofing Kit	OP05-126	001-148-880	For FS-2575C
Key Template	OP05-101	004-447-450	For Russian flag vessels (IB- 583)
	OP05-135	001-184-560	For Russian flag vessels (IB- 585)
Hose Clamp	OP08-11	005-946-960	For Preamp FAX-5
Extension Cable	OP04-2 *10M*	000-041-174	3D2V assy., w/relay connector
Kit	OP04-2 *20M*	000-041-175	
	OP04-2 *30M*	000-041-176	
	OP04-2 *40M*	000-041-177	_
	OP04-2 *50M*	000-041-178	
Whip Antenna	FAW-6R2A	000-107-921	6 m, universal bracket, copper terminal
	FAW-6R2	000-572-108	6 m, no universal bracket, copper terminal
	FAW-6RP2	000-572-109	6 m, universal bracket, M-plug
	FAW-6D	000-572-128	6 m, universal bracket, copper terminal
	04S4176	001-073-340-10	2.6 m
	WH-027-8M	001-138-110-10	8 m whip antenna
	WH-027-8M02	001-138-120-10	8 m whip antenna
	WH-027-8M03	001-138-140-10	8 m whip antenna
	WH-027-10M	001-139-400-10	10 m whip antenna
Manual Tilting	WH-027-KD	001-139-410-10	For WH-027-8M02/10M
Mechanism	WH-027-KD2	001-141-850-10	For WH-027-10M
Accessories	FP05-05700	000-010-246	Handset HS-2003-15, Bracket FP-05510, Accessories FP05- 05511
Handset	HS-2003-15	000-054-223	
Bracket for Hand- set	FP05-05510	005-951-790	

Name	Туре	Code No.	Remarks
Antenna Installa-	CP05-09010	005-954-180	10 m
tion Materials	CP05-09020	005-964-410	25 m
	E-22	000-050-632	
	E-24	000-050-634	
	E-25	000-050-635	
	E-26	000-050-636	
	E-27	000-050-637	
Wire Rope Assy.	TM-173-D4 L1520Y8	000-176-211-10	For FS-1575
	TM-173-D4 L1670Y8	000-175-179-10	For FS-2575
	TM-173-D4 L1800Y8	000-175-178-10	For FS-5075
Coaxial Cable	RG-10/U-Y	000-159-411-10	10 m
		000-159-412-10	20 m
		000-159-413-10	30 m
		000-159-414-10	40 m
		000-159-415-10	50 m
	RG-8A/U	000-167-213-10	10 m
		000-167-214-10	20 m
		000-169-060-10	30 m
		000-169-062-10	40 m
		000-169-064-10	50 m
Cable Assy.	57FE-17JE-	000-174-473-10	
	BC10PL3000		
Cable Assy	05S0952 *10M*	000-758-821-10	Between transceiver unit & an-
(7-core)	05S0952 *20M*	000-758-822-10	tenna coupler
	05S0952 *30M*	000-758-823-10	
	05S0952 *40M*	000-758-824-10	
	05S0952 *50M*	000-758-825-10	
Cable Assy	05S0793 *10M*	000-125-984-10	Between transceiver unit & an-
(5-pair)	05S0793 *20M*	000-125-986-10	tenna coupler
	05S0793 *30M*	000-125-987-10	w/armor
	05S0793 *40M*	000-125-988-10	
	05S0793 *50M*	000-125-989-10	
Cable Assy.	DSUB15-5P-L5M	001-146-850-10	Between transceiver unit &
-	DSUB15-5P-L10M	001-146-860-10	control unit
	DSUB15-5P-L20M	001-146-870-10	1
	DSUB15-5P-L30M	001-146-880-10	1
	DSUB15-5P-L40M	001-146-890-10	1
	DSUB15-5P-L50M	001-146-900-10	1

1. HOW TO INSTALL THE SYSTEM

1.1 Control Unit FS-2575C

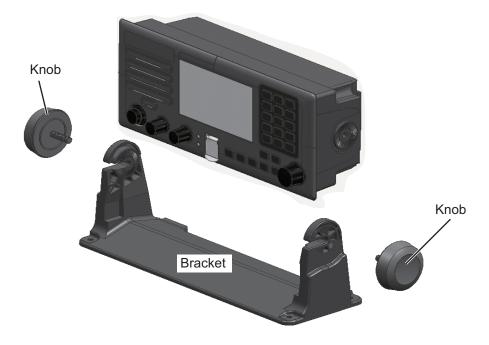
1.1.1 Installation location

- The location must not be near water, rain and water splash.
- Make sure the location is strong enough to hold the unit under the conditions of continued vibration and shock normally found on the boat.
- Install the unit where the controls can easily be operated.
- Install the unit where it does not cause the interference to persons or prevent operation of other equipment, especially the ship's wheel.
- Follow the compass safe distances shown in the Safety Instructions to prevent the interference to a magnetic compass.
- Follow the recommended maintenance space shown in the outline drawing to allow the serviceman to reach the connectors at the rear of the unit.
- Direct sunlight can cause the inside of the unit to become hot. Install the unit away from direct sunlight.

1.1.2 How to install the unit on a desktop

A bracket is provided to install the unit on a desktop.

- 1. Fasten the bracket to the installation location with the self-tapping screws.
- 2. Loosely screw in the knobs at the sides of unit.
- 3. Set the unit to the bracket and tighten the knobs.

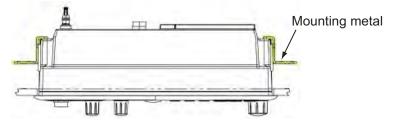


1.1.3 How to install the unit in a console (flush mount)

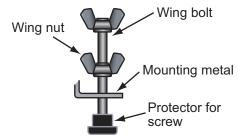
The flush mount kit is required to install the Control Unit in a console. Type: OP05-122, Code No.: 001-135-600

Name	Туре	Code No.	Qty
Mounting metal	05-089-1171-0	100-299-020	2
Wing bolt	M4×40 YBSC2	000-175-263-10	4
Wing nut	M4 YBSC2	000-168-239-10	4
Hex. bolt	M6×12 SUS304	000-162-897-10	2
Spring washer	M6 SUS304	000-158-855-10	2
Protector for screw	26-005-2125-0	100-354-800-10	4

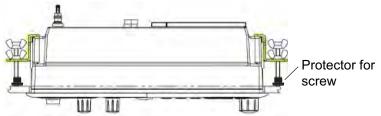
- 1. Make a cutout in the installation location. See the outline drawing.
- 2. Set the Control Unit to the cutout.
- 3. Attach two mounting metals (supplied) to the Control Unit with two hex bolts (M6×12, supplied) and M6 spring washers (supplied).



4. Screw the wing bolts and the wing nuts to the mounting metal, then attach the protectors for screws as below.



5. Fasten each wing bolt so that the protector for screw touches the back side of the mounting place.



6. Fasten the wing nuts tightly.

1.2 Antenna Coupler AT-1575 (FS-1575), AT-5075 (FS-2575, FS-5075)

The Antenna Coupler is installed between the antenna and the Transceiver Unit, and tunes the antenna to the transmitter. The coupler must have a correct ground to function properly. The radiotelephone cannot provide its intended performance unless the ground is proper.



1.2.1 Installation location

The water-jetsproof construction of the antenna coupler permits installation either indoors or outdoors. Install the unit on a bulkhead or the overhead (indoor installation). Do not install the unit on a deck.

When selecting a location, keep in mind the following points.

General considerations

- Select a location where the coupler can be easily maintained, but where it will not interfere with crew or passengers.
- Follow the compass safe distances listed in the Safety Instructions to prevent interference to a magnetic compass.
- Leave enough space around the sides of the coupler for maintenance and checking. See the outline drawing for minimum space.
- Install the coupler close to the antenna base and as near to the ground as possible, for optimum radio energy.
- The lead-in wire should be as near to the coupler as possible.

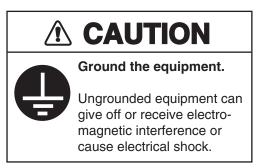
Indoor installation

• Install the unit away from GNNS equipment, radio equipment, etc. to prevent mutual interference.

Outdoor installation

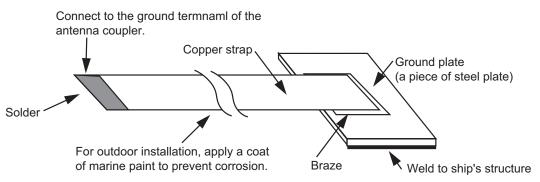
- The coupler is water-jetsproof, but is not designed to take a continual soaking. If necessary, cover the top and sides with a wooden housing (or similar enclosure) or by sealing any opening in the top or sides with silicone sealant.
- Keep wires as short as possible and keep the wires away from any grounded conductors such as lifelines, mast shrouds, or fittings.
- Locate the insulator away from funnels, etc.

1.2.2 Ground



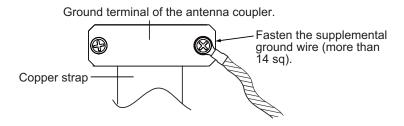
The ground connection must have the lowest possible RF-impedance. Losses in the ground connection reduce the communication distance.

Make the ground connection to the Antenna Coupler with a copper strap, constructed as shown below. **For vessels with conducting hulls**, make the width at least 60 mm and the length not more than one meter. **For FRP vessels**, make the width at least 60 mm and the length not more than five meters.



For outdoor installation, do the following.

- Coat the junction where the copper strap connects to the ground terminal of the antenna coupler with silicone sealant.
- Coat the copper strap between the ground plate and ground terminal of the anntenna coupler with marine paint to prevent corrosion.
- Add a supplemental ground wire (local supply, more than 14 sq) and fasten it to the ground terminal of the antenna coupler as shown below.

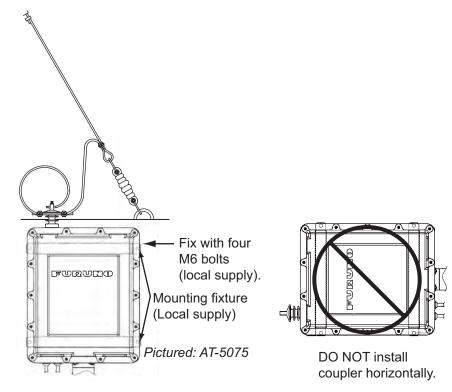


1.2.3 Installation procedure

Outdoor installation

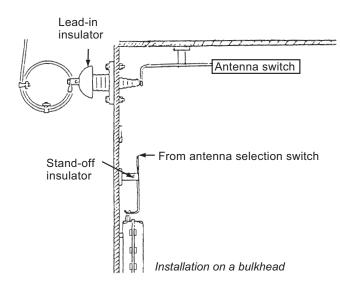
Fasten the Antenna Coupler to a bulkhead of the bridge, mast, handrail, etc., with the M6 bolts (local supply).

For installation on the mast, see section 1.5 to select a location. Weld suitable mounting fixtures (local supply) to the mast and bolt the coupler there.



Indoor installation

Fasten the Antenna Coupler to a bulkhead on the bridge or the overhead. Select a location where the distance between the lead-in insulator and the coupler is as short as possible.





Installation on the overhead

1.3 Transceiver Unit FS-1575T (FS-1575), FS-2575T (FS-2575), FS-5075T (FS-5075)

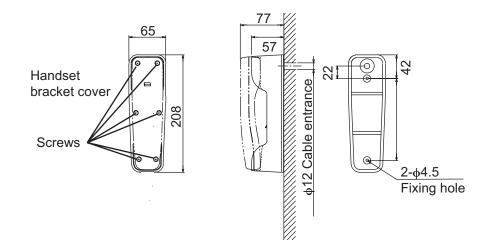
Select a location that meets these conditions:

- Install only on a bulkhead.
- Select a location which provides good ventilation.
- The location must be clean and dry.
- Make sure the location can hold the unit under the conditions of continued vibration and shock normally found on the boat. If necessary, increase the strength the installation location.
- Follow the compass safety distance shown in the Safety Instructions to prevent the interference to a magnetic compass.
- Follow the recommended service space shown in the outline drawing to provide space for maintenance and checking.
- Install the unit away from direct sunlight to prevent overheating.

Fasten the unit with 6×30 self-tapping screws. Refer to the outline drawing for installation dimensions.

1.4 Handset HS-2003

Unfasten six screws to remove the bracket cover. Fasten the bracket to the location with two self-tapping screws 4x16 (supplied).



1.5 Antenna

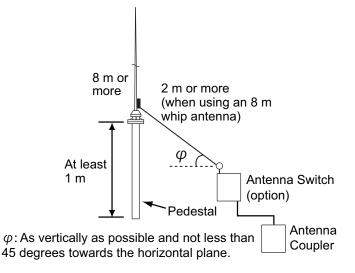
The antenna plays the most important role in radio communication. If it cannot receive or transmit due to improper installation, even the most sophisticated transceiver will be useless.

Types of antennas

The most commonly used antenna is a whip antenna. The recommended minimum total length is 10 meters. For an 8 m whip antenna, secure it with a lead-in wire of at least 2 m in length, as shown in the illustration at right.

A long wire antenna can also be used. The total length must be between 10 and 18 meters.

After setting up the equipment, confirm that the antenna can tune all frequencies.



General requirements

- Separate the TX antenna as far as possible from stays, metallic objects, and direction finder antenna.
- The distance to an Inmarsat antenna must be more than five meters.
- The RX antenna (required for duplex communications) should be separated at least five meters from the TX antenna. Install a receiving antenna junction box at the base of the antenna.
- · Locate the insulator away from funnels, etc.
- Use a wave-type insulator to connect to the coupler (or antenna switch) and leave some slack in the feed-in wire, to prevent direct stress to the coupler.

Installation requirements for whip antenna

- The installation arrangement of the antenna or pedestal must be constructed to withstand the strain from swaying and vibration.
- Locate the antenna in an elevated position on the ship and at least one meter away from conductive structures.
- Insulate the down lead from the base of the antenna to the coupler. Run as vertically as possible and not less than 45 degrees towards the horizontal plane.
- For indoor installation, use a lead-in insulator (FURUNO type: YA-256) to make the connection. If necessary, use a high quality antenna switch and stand-off insulator.
- it is recommended to construct an enclosure around the whip antenna to prevent contact with the antenna. Also, post a weather resistant "DANGER HIGH VOLTAGE" sign on the enclosure.

Installation requirements for a long wire antenna

• The length of the vertical portion should be longer than four meters. Run as vertically as possible and within 10 degrees toward the vertical plane.

RX antenna

An RX antenna is required for duplex communications.

1.6 How to Install Optional Equipment

1.6.1 Preamp Unit FAX-5

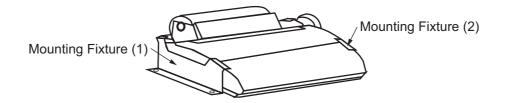
The preamp unit can be mounted two ways: screwed on to a mast or fixed to a mast, using stainless steel hose clamps (optional supply). The mast should not be longer than 1.5 m (5 feet) to prevent undue flexing in heavy winds.

For detailed installation procedure, see the outline drawing for the preamp unit.

1.6.2 Printer PP-510

Refer to the outline drawing at the end of this manual for mounting dimensions and recommended maintenance space. Follow the compass safety distance shown in the Safety Instructions to prevent interference to a magnetic compass. Connect the interconnection cable between the printer and the Control Unit (or Printer Interface). For how to load paper and set ribbon cassette, refer to the Operator's Manual of the printer.

Fix the printer to the mounting location with the two mounting fixtures provided.



1.6.3 Printer Interface IF-8500

Refer to the outline drawing at the end of this manual for mounting dimensions and recommended maintenance space. Follow the compass safety distance shown in the Safety Instructions to prevent interference to a magnetic compass. Fasten the Printer Interface with self-tapping screws (local supply) to desktop or bulkhead.

1.6.4 External Loudspeaker SEM-21Q

The external loudspeaker can be installed on a tabletop, the overhead or bulkhead. Follow the compass safety distance shown in the Safety Instructions to prevent interference to a magnetic compass. See the outline drawing at the back of this manual for mounting dimensions and recommended maintenance space. Select a location that is within 2.8 m of the Control Unit because that is the length of the connection cable. Fasten the loudspeaker to the mounting location with the self-tapping screws (supplied).

1.6.5 AC-DC Power Supply PR-850A, PR-300

Select a location that satisfies the following conditions:

- The location provides good ventilation.
- The location is clean and dry.
- Make sure the location is strong enough to support the unit under the conditions of continued vibration and shock normally encountered on the boat.
- Follow the compass safety distance in the Safety Instructions to prevent interference to a magnetic compass.
- The location provides the maintenance space shown in the outline drawing.

1.6.6 Terminal Unit IB-583, IB-585

Install the Terminal Unit on a desktop. Select a location that meets the following conditions.

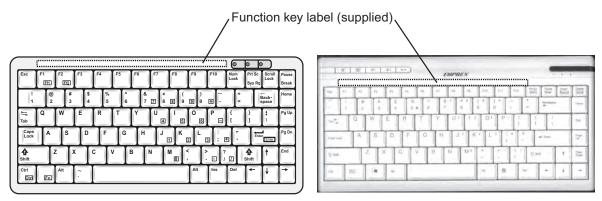
- The temperature and humidity in the location must be stable and moderate.
- Keep the unit away from the high-power radiotelephone and its feeder wire so that RFI (Radio Frequency Interference) is minimum.
- Follow the compass safety distance shown in the Safety Instructions to prevent the interference to a magnetic compass.
- Follow the recommended maintenance space shown in the outline drawing to facilitate maintenance and checking.

How to install the terminal unit

- 1. Fix the bracket to the location with four self-tapping screws (supplied).
- 2. Loosely screw in two knobs in the terminal unit.
- 3. Set the terminal unit to the bracket and tighten the knobs.

How to install the keyboard

1. Attach the function key label to the keyboard as shown below.



Keyboard for IB-583

Keyboard for IB-585

- 2. Attach four fasteners (small, supplied with the optional kit) to the bottom of the keyboard.
- Attach four fasteners (large, supplied with the optional kit) to the small fasteners used in step 2.
- 4. Remove the paper from four fasteners.
- 5. Fasten the keyboard to the location.

1.6.7 Automatic Antenna Switch AS-102

The AS-102 allows you to connect the antenna to ground remotely when there is a possibility of lightning, or the antenna must be grounded to meet with local regulations when returning to a harbor. Install the switch between the antenna and the Antenna Coupler. Fasten the unit on a bulkhead with four 5×20 self-tapping screws (supplied), or bolts and nuts. Coat the ground terminal with silicone sealant. An external switch can be installed to turn off the antenna manually. See the interconnection diagram.



Fixing hole (4 pcs.) Fasten unit with four self-tapping screws (5x20, supplied).

1.6.8 WR2 Board

The WR2 Board (05P0847B) enables reception of DSC routine frequencies while using the SSB radiotelephone connection. A whip antenna (to WR2_ANT) is necessary. Parts name: Watch Receiver Kit, Type: OP05-123, Code No. 001-135-610

Name	Туре	Code No.	Qty
WR2 Board	05P0847B(LF)	001-137-100	1
Binding head screw	M3×6 SUS304	000-163-485-10	6
Mini-pin assy.	L-200 07S0046	000-165-847-10	1
Connector assy.	MJ145-TMP-1.5D-L520	000-175-320-10	1
Shield case	03-161-1011-0	100-302-730-10	2

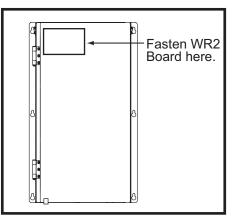
1. The Preamp Unit FAX-5 requires 12 VDC power. Set the jumper block J3 on the WR2 Board to the ACTIVE position to supply power to the unit.



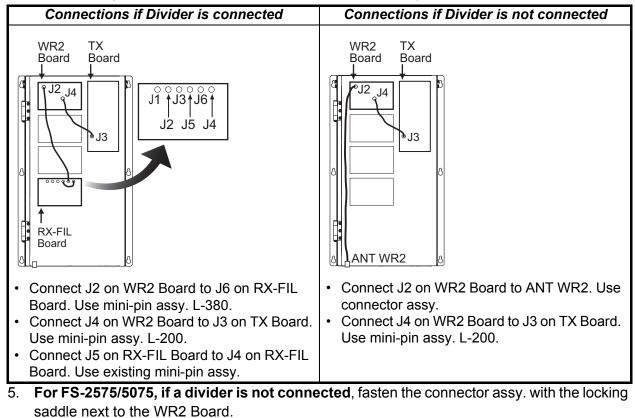
2. Open both the Transceiver Unit and the shield cover.

1. HOW TO INSTALL THE SYSTEM

3. Fasten the WR2 Board with four screws (supplied) at the location shown below.



4. Make the following connections between the WR2 Board / ANT WR2 / RX-FIL Board, with the Mini-pin assy. (supplied with this kit) and the connector assy. (supplied with this kit).



- 6. Close the shield cover and the Transceiver Unit.
- 7. **If a divider is connected**, open the [RT SETUP] menu (see section 3.3.4), select [SETUP] and set [DIVIDER] to [ON].

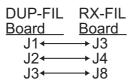
1.6.9 DUP-FIL Board (FS-5075 only)

The DUP-FIL Board (05P0863) installs above the RX-FIL Board (05P0862) and gives the FS-5075 full duplex capability. Parts Name: Full Duplex Kit, Type No. OP05-125, Code No. 001-135-630

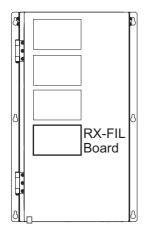
Name	Туре	Code No.	Qty
DUP-FIL Board	05P0863(LF)	001-137-900	1
Mini-pin assy.	L-80	000-165-835-10	3
Spacer	SQ-15	000-159-299-10	4

1. Open both the Transceiver Unit and the shield cover.

2. Make the connections shown below between the DUP-FIL Board and the RX-FIL Board, using the mini-pin assemblies (supplied).



3. Unfasten the four pcb mounting screws from the RX-FIL Board. See the illustration below for the location of the Board.



- 4. Screw in four spacers (supplied) in the pcb mounting screw holes for the RX-FIL Board.
- 5. Set the DUP-FIL Board on top of the spacers then fasten the Board to the spacers with the screws removed at step 3.
- 6. Close the shield cover and the Transceiver Unit.

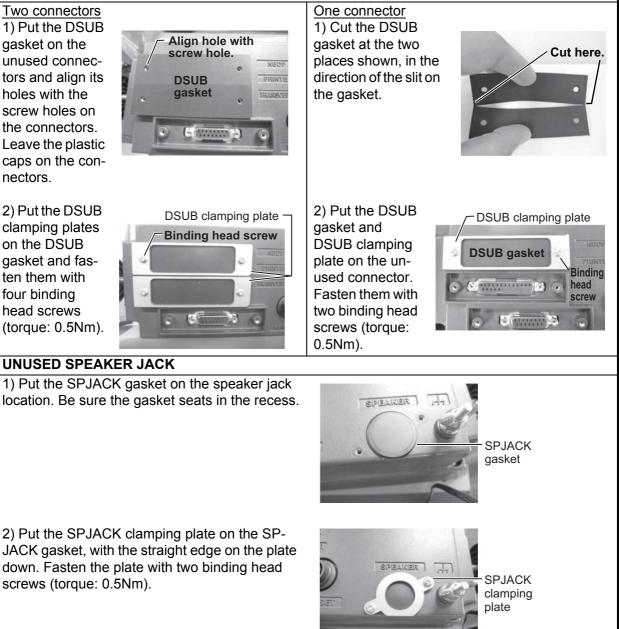
1.6.10 Waterproofing kit for the Control Unit

The waterproofing kit OP-126 (Code No. 001-148-880) protects the connectors and jacks on the control unit from water ingress, to waterproofing standard IP22.

Name	Туре	Code No.	Qty
DSUB gasket	05-106-5571-1	100-365-871-10	1
SPJACK gasket	05-106-5572-0	100-365-880-10	1
DSUB clamping plate	05-106-5604-1	100-365-931-10	3
SPJACK clamping plate	05-106-5606-0	100-365-950-10	1
DSUB boot	05-106-5603-0	100-365-920-10	3
SPJACK boot	05-106-5605-0	100-365-940-10	1
Cable tie	CV-125N	000-172-164-10	4
Binding head screw	M3×8 SUS304	000-162-665-10	8

How to protect unused connector(s), speaker jack

UNUSED CONNECTOR(S)



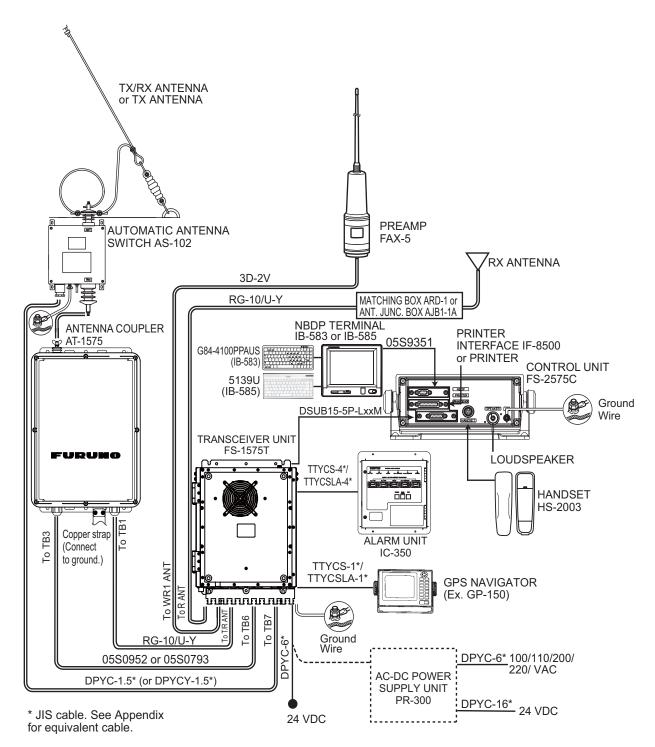
How to protect connector, speaker jack in use

How to protect connector, speaker jack in use						
	CONNECTOR IN USE			SPEAKER JACK IN USE		
1) Pass the cable through the DSUB clamping plate.	DSUB clamping plate	1) Pass the cable t the SPJACK clamp Note the orientation straight edge on th ing plate.	ing plate. n of the	SPJACK clamping plate		
2) Connect the cable to the control unit. Put the DSUB boot on the cable, with the slit on the boot down.	DSUB boot	2) Connect the cable to the speaker jack. Put the SPJACK boot on the cable, with the slit on the		SPJACK		
3) Slide the DSUB boot downward until it con- tacts the control unit.		 3) Slide the clamping plate downward until it contacts the boot, with the straight edge on the plate 		boot		
4) Slide the clamping plate downward until it contacts the boot. Be sure there is no gap be- tween the plate and the boot.	Clamping plate	down. Be sure there is no gap between the plate and the boot. 4) Fasten the	C	lamping plate		
5) Fasten the plate with		plate with two binding head screws (torque: 0.5Nm).				
two binding head screws. (torque: 0.5Nm). Fasten the boot to the cable with a cable tie.	Cable	5) Fasten the boot to the cable with a cable tie.	A CONTRACT OF THE OWNER	Cable tie		

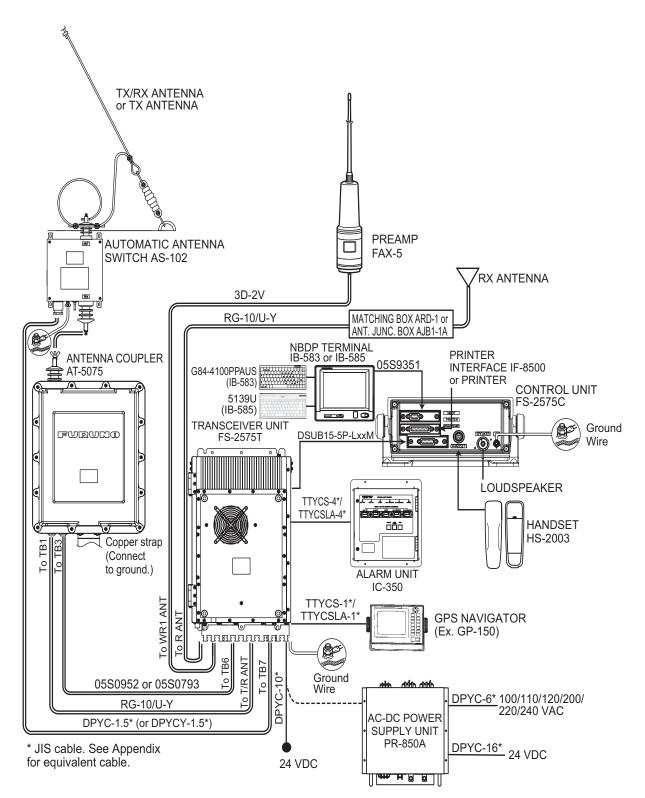
2. WIRING

The illustration on this page and the next two pages show general connections between the Antenna Coupler, Transceiver Unit, Control Unit and external equipment. For detailed information, see the interconnection diagram. Many of the cables mentioned are JIS (Japan Industry Standard) cables. If not available locally, use the equivalent. See the cable guide in the Appendix for how to select equivalent cables.



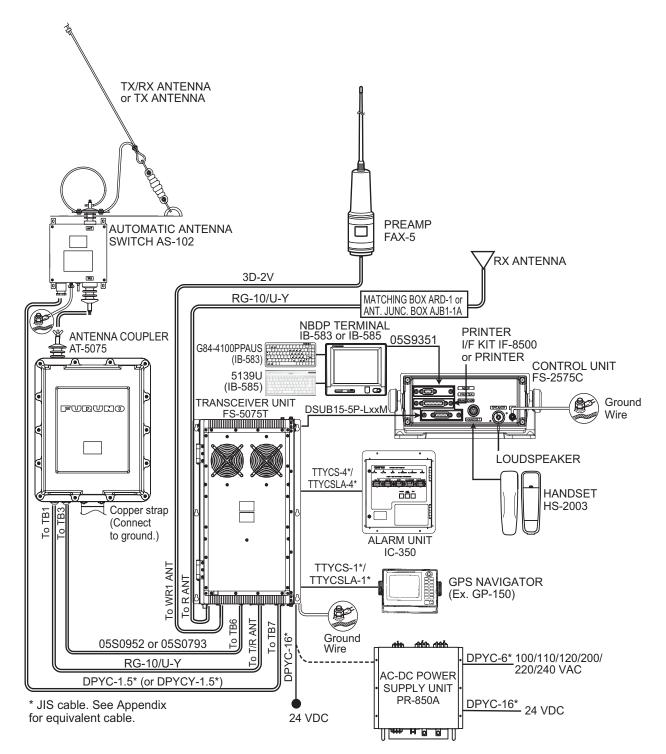


<u>FS-2575</u>



2. WIRING

FS-5075



2.1 Antenna Coupler

Note: The T/R antenna is automatically connected to ground when the power is turned off.

2.1.1 General connections

Three cables connect to the Antenna Coupler: the signal cable (7-core cable (05S0952) or 5P cable (05S0793)), coaxial cable from the Transceiver Unit, and the antenna wire. For the connection of the antenna wire, use an insulator so as not to put stress on the connector at the insulator of the Antenna Coupler. For cable 05S0952, cut off the armor at the outside of the Antenna Coupler, and then wrap vinyl tape around the end of armor.

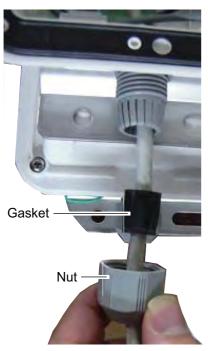
- 1. Open the cover of the Antenna Coupler.
- 2. Unscrew the nut for the signal cable and coaxial cable and remove the following from each cable:

AT-1575: Gasket AT-5075: Two washers and gasket

3. Do one of the following:

AT-1575: Pass the nut and gasket onto the cable as shown below.

AT-5075: Pass the nut, two washers and gasket onto the cable in the order shown below.



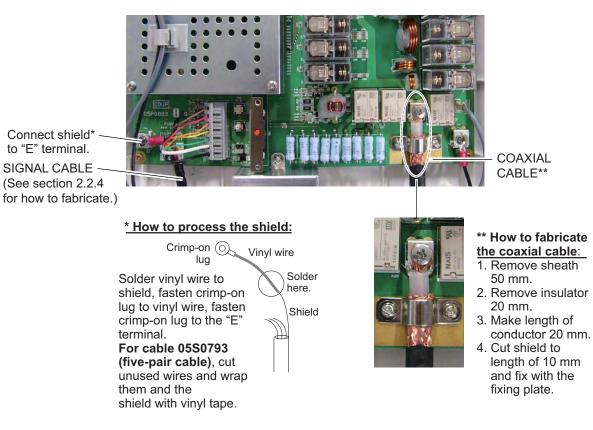


Antenna Coupler AT-5075

Antenna Coupler AT-1575

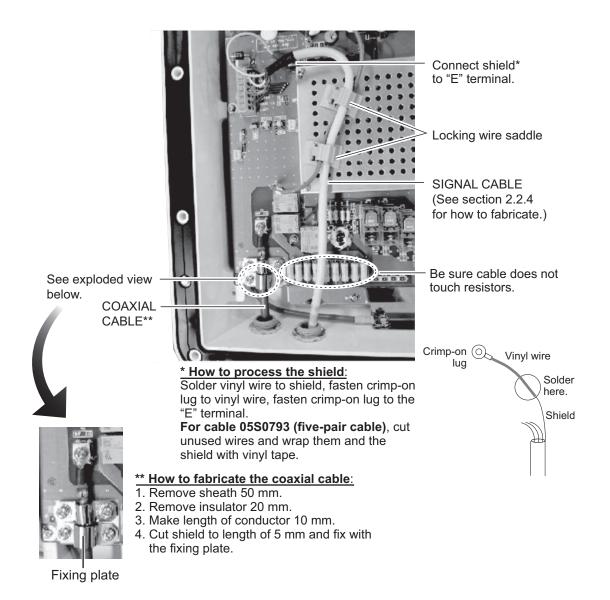
Antenna Coupler AT-1575, AT-5075, bottom front view

- 2. WIRING
- 4. Connect the signal cable and the coaxial cable as shown below.



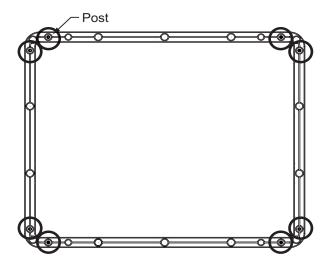
Antenna Coupler AT-1575, inside view

2. WIRING



Antenna Coupler AT-5075, inside view

5. Check that the gasket is engaged to the posts on the casing then close the cover. (Pictured: AT-5075)



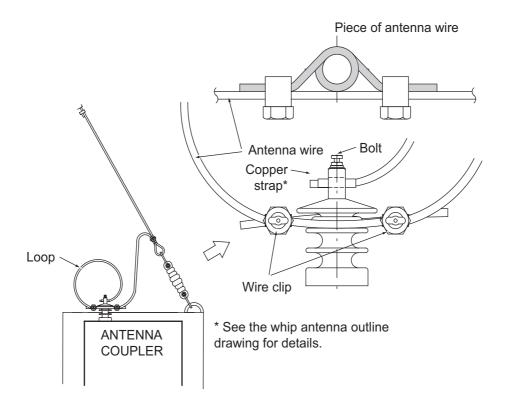
2. WIRING

2.1.2 Connections for outside installation

For outside installation, arrange the antenna wire as shown below. The optional antenna materials shown below are necessary.

Name	Туре	Code No.	Remarks
Antenna materials	CP05-09010	005-954-180	w/10 m antenna cable
	CP05-09020	005-964-410	w/25 m antenna cable

- 1. Make a loop (diameter approx. 120 mm) in the antenna cable at the insulator of the Antenna Coupler.
- 2. Put the end of the antenna cable through the hole of the insulator and fasten the bolt.
- 3. Prepare a piece of antenna wire (approx. 300 mm) and wind it around the insulator one turn.
- 4. Fasten the above piece of wire and antenna wire together with the wire clips near the ends of the piece of wire.
- 5. Coat the bolt with the silicone sealant.

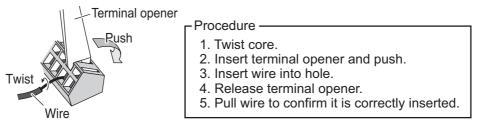


2.2 Transceiver Unit

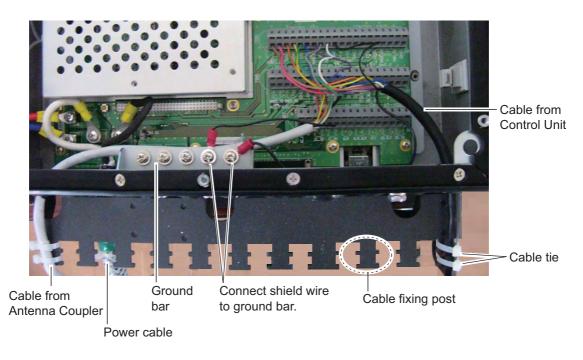
2.2.1 General connections

The general procedure for connecting cables to the Transceiver Unit is as follows:

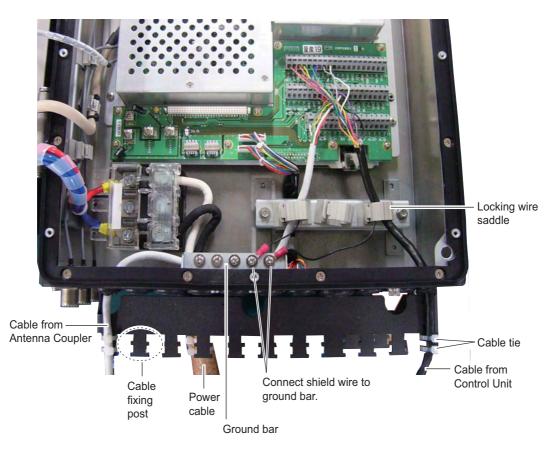
- 1. Treat the cable end. See section 2.2.4.
- 2. Use a knife to cut intersecting cuts in the applicable rubber bushing at the bottom of the unit.
- Open the unit. Put the cable through the rubber bushing.
 Note: For the FS-1575T, insert cables in descending order of their corresponding terminal numbers; TB7→TB6→TB5...→TB1
- 4. For the FS2575T/FS-5075T, put the cable (except power cable) through a locking wire saddle at the right side of the unit.
- 5. Connect the cable (except power cable) to the appropriate WAGO connector on the T-IF Board. See the interconnection diagram. Use the terminal opener (attached inside the unit) to open the terminals on the connector.



- 6. Fasten a crimp-on lug to the shield of the cable. Connect the shield to the ground bar.
- 7. Fasten the cable to a cable fixing post with two cable ties.



Transceiver Unit FS-1575T, inside view

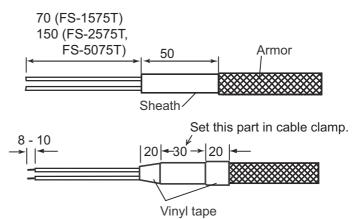


Transceiver Unit FS-5075T, inside view

Note: The inside of the FS-2575T is almost identical to that of the FS-5075T. See the illustration above for connections.

2.2.2 Power cable

Fabricate the cable DPYC-6 (FS-1575), DPYC-10 (FS-2575) or DPYC-16 (FS-5075) as shown below. Attach the crimpon lugs supplied on the 24 VDC terminal to the cable. Connect the cable to the 24 VDC terminal. If an equivalent cable is used it must not allow the voltage to drop more than 5%.



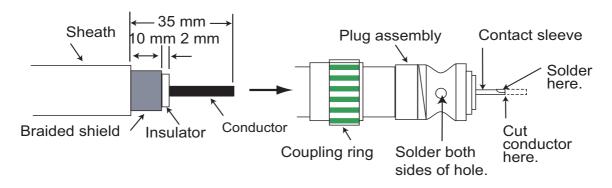
2.2.3 Coaxial cable

Coaxial cables connect the antennas to the Transceiver Unit. Attach the M-type connector of the coaxial cable. Leave some slack in the coaxial cable so that the cover of the Transceiver Unit can be opened easily.

The antennas are connected to the Transceiver Unit with a 50 ohm coaxial cable, type RG-10/U-Y, RG-8A/U or 3D-2V. Lay the coaxial cable and attach an M-type plug to the cable as shown on the next page.

- 1. Remove the sheath by 35 mm.
- 2. Bare 23 mm of the conductor. Trim braided shield by 10 mm and solder.
- 3. Slide the coupling ring onto the cable.

- 4. Screw the plug assembly on the cable.
- 5. Solder the plug assembly to the braided shield through solder holes. Solder the contact sleeve to the conductor.
- 6. Screw the coupling ring into the plug assembly.
- 7. Screw the plug into the WR1_ANT, WR2_ANT, R_ANT or T/R_ANT receptacle on the Transceiver Unit as applicable.



5-pair cable 2.2.4

Fabricate the cable as shown below. Do not unravel the twisted wire pairs.

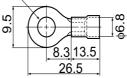


(A) Remove sheath by approx. 15 cm (150 mm) and cut hole in shield.

shield from hole and cut them. Shorten shield considering its location in the transceiver.

(B) Pull out paper tape and inner (C) Attach crimp-on lug* to shield. Expose cores of wires approx. 6 mm. Tape wires and shield with vinyl tape.

* Dimensions of crimp-on lug: φ**4**.3



2.3 Control Unit

Connect the Transceiver Unit to the Control Unit with the cable with the D-sub 15-pin connector at both ends. Connect a single Control Unit to the CONTROLLER 1 port. (This port has priority when two Control Units are connected.) Connect a No.2 Control Unit to the CONTROLLER 2 port.

Connect the handset HS-2003 to the HANDSET port at the rear of the Control Unit. For other handset or microphone, connect to the HANDSET REAR port.

2.4 External Equipment

Connect cables for external equipment to the T-IF Board in the Transceiver Unit.

<u>GNSS</u>

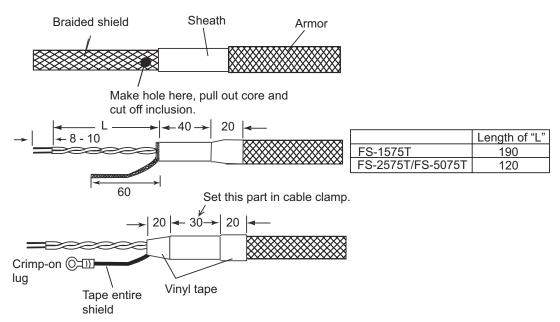
This radiotelephone can receive the following sentences in IEC 61162-1 (ed.2nd) format. Use the cable TTYCS-1/TTYCSLA-1 (or the equivalent) to connect the equipment to IEC 61162-1 of TB6 in the Transceiver Unit.

Data	Sentence, priority order
Position info, Position fix	GNS>GGA>RMC>GLL
Time info	ZDA>RMC

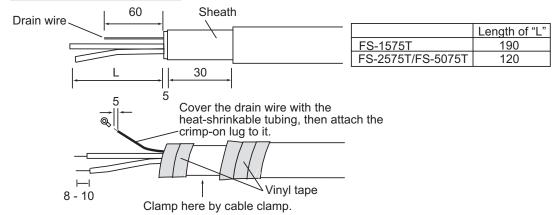
Alarm Unit IC-350

Connect the Alarm Unit IC-350 to TB7 in the Transceiver Unit with the cable TTYCS-4/TTYCSLA-4 (or the equivalent).

Fabrication of TTYCS series



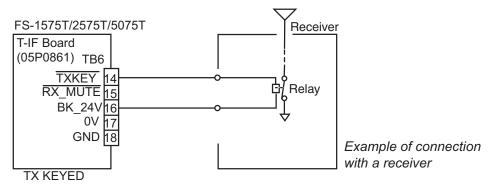
Fabrication of TTYCSLA series



EXT BK (SSB radiotelephone, etc.)

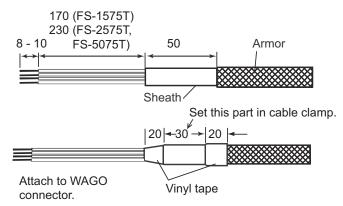
Terminal no. on TB6 of T-IF Board	Signal name	Function	Object
14	TXKEY	Go to GND when at TX	BK control for other radiotelephone
15	RX_MUTE	Receiver circuit muted when this line goes GND.	BK control from other radiotele- phone
16	BK_24V	Output voltage: 24 VDC	Power of relay BK for other radio- telephone
17	0V	GND	0V
18	GND		

Note: When the GND line from other radiotelephone is connected to the chassis, float the ground.



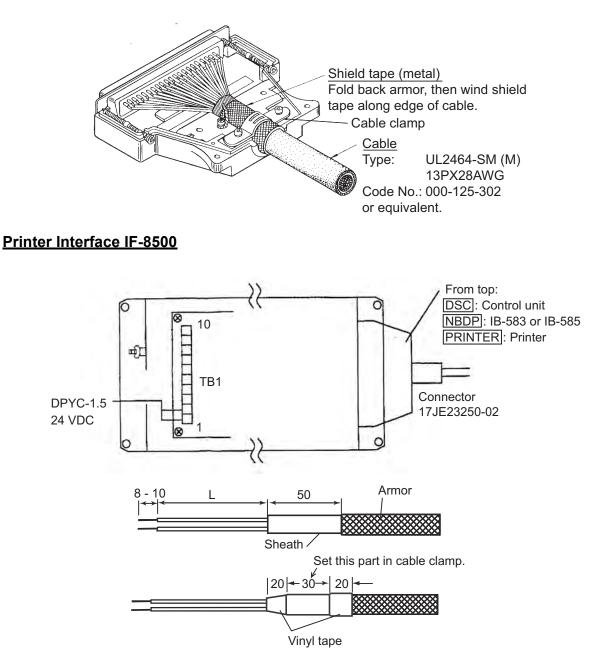
For connection to a transceiver unit, see the BK interface interconnection diagram at the back of this manual.

Connect the SSB radiotelephone to EXT BK in the Transceiver Unit with the cable MPYC-4 (or equivalent).



<u>MIF unit</u>

Use connector 17JE-13250-02 (supplied as installation materials) to connect the MIF unit to the REMOTE port on Transceiver Unit.



Keyboard for Terminal Unit IB-583, IB-585

IB-583: Connect the PS/2 connector of the keyboard (G84-4100PPAUS) to the PS/2 port at the rear of the IB-583.

IB-585: Connect the USB connector of the keyboard (5139U) to the USB port at the front of the IB-585.

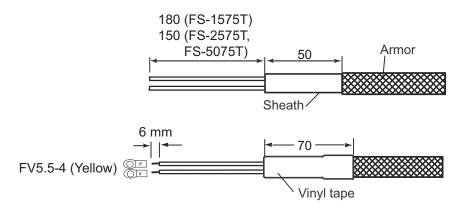
2.5 AC-DC Power Supply Unit PR-300/PR-850A (option)

To connect to both an AC and DC ship's mains, the optional AC-DC power supply unit PR-300 (FS-1575) or PR-850A (FS-2575/FS/5075) is required. Attach the crimp on lug FV5.5-4 (local supply) to the following cables or equivalent (local supply) for connection with the power supply unit.

- AC power: DPYC-6
- DC power: DPYC-6 (FS-1575), DPYC-10 (FS-2575), DPYC-16 (FS-5075)

How to process power cables

Fabricate the cable as shown below. Connect cables to their input terminals with crimp-on lugs.

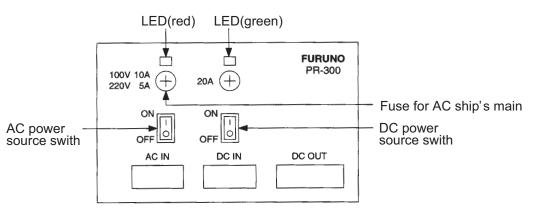


How to select input voltage

PR-300 for FS-1575:

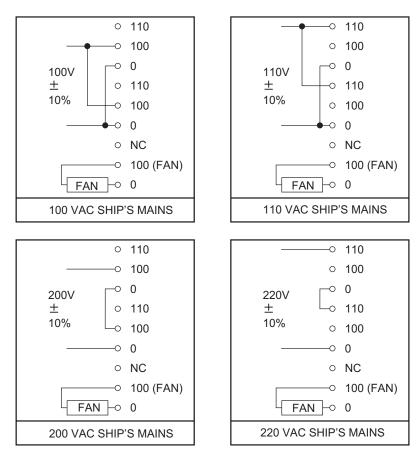
The input voltage is adjustable for 100/110/200/220 VAC, and is factory-set for 220 VAC. To select other input voltages, open the top cover and change the wiring according to the figure on the next page and change the power fuse accordingly to AC input voltage as follows.

Input voltage	Power fuse	
100/110 VAC	10 A	
200/220 VAC	5 A	



AC-DC power supply unit PR-300, rear view

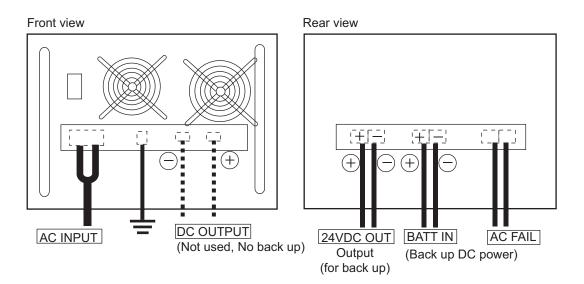
2. WIRING

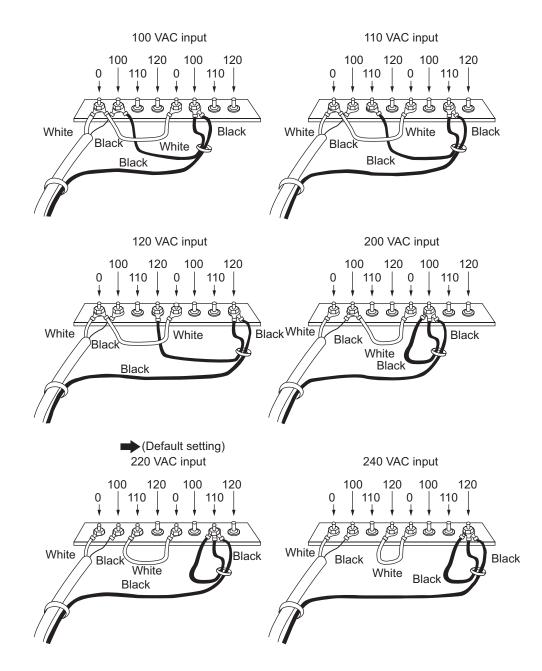


Tap connections in the PR-300

PR-850A for FS-2575/5075:

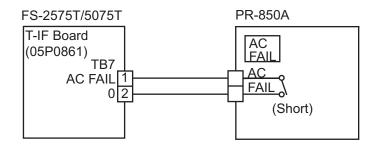
The input voltage is adjustable for 100/110/120/200/220/240 VAC, and is factory-set for 220 VAC. To select other input voltages, open the top cover and change the wiring according to the figure on the next page. After changing the input voltage, correct the sticker on the front panel accordingly.





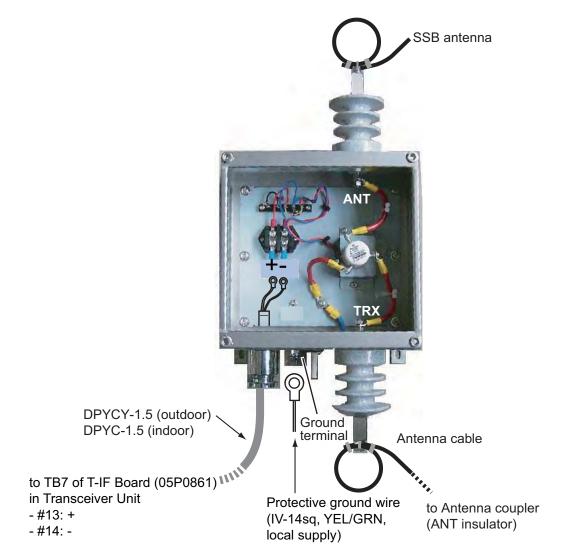
AC FAIL line (PR-850A)

When the power supply is switched to the back-up, AC and FAIL at PR-850A are shorted as shown in the figure at right.

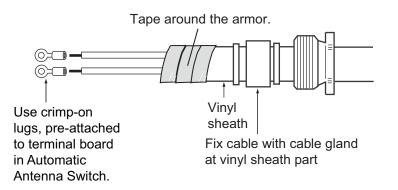


2.6 Automatic Antenna Switch AS-102 (option)

Connect the SSB antenna to the ANT terminal, and use the antenna cable to connect the TRX terminal and the Antenna Coupler (ANT terminal) as shown below. For the signal cable, connect the DPYCY-1.5 (or DPYC-1.5) cable between the Transceiver Unit and the Automatic Antenna Switch as shown below. For outside installation, follow the procedure in section 2.1.2.



How to process the cable (example: DPYCY-1.5)

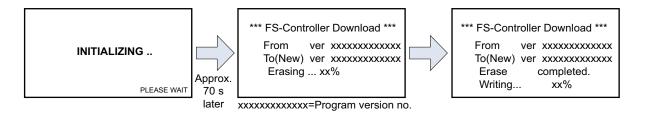


3. INITIAL SETTINGS

This chapter shows you how to enter the initial settings. A password is required to enter the initial settings. Refer to FURUNO Information for the password.

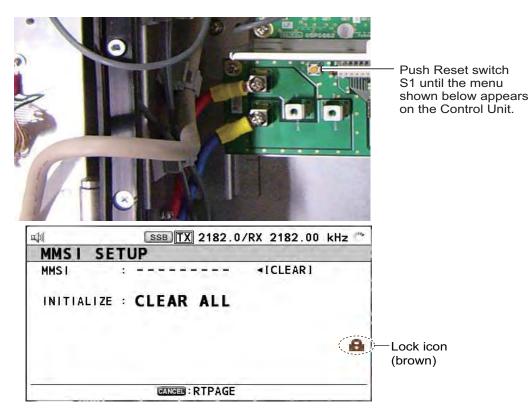
3.1 How to Initialize the Control Unit and Transceiver Unit

Turn on the power switch on the Control Unit. The equipment starts to update the software, in the sequence shown below. When the procedure is completed, the radiotelephone screen appears.



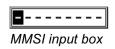
3.2 How to Enter MMSI

 Turn on the Control Unit. Open the Transceiver Unit and press and hold the Reset switch S1 (approx. 5 seconds) on the T-IF Board (05P0861) until the menu shown below appears on the Control Unit.



3. INITIAL SETTINGS

2. Enter the password. The lock icon turns green, the shackle of the lock opens and the cursor selects the MMSI area. Push the **Rotary** knob to show the MMSI input box.



- 3. Use the numeric keys to enter the MMSI.
- 4. Push the Rotary knob to register the MMSI.

Note: You can re-enter the MMSI if it is wrong. Select ◄[CLEAR] then push the **Rotary** knob. You are asked "MMSI Clear OK?". Select [Yes] then push the **Rotary** knob. Select the MMSI number input area then push the **Rotary** knob. Enter the MMSI.

3.3 Performance Check

Power the system and check the receiver and transmitter as follows:

Receiver

- Set the unit as follows: Speaker: ON, Squelch: OFF, AGC: Fast, Gain: Maximum
- 2. Confirm that a signal can be received on each band. If noise is present or a signal is weak, check the antenna lead-in section, coaxial cable and ground.

Transmitter

- 1. On each band, confirm that the antenna is tuned when the **0/TUNE** key is pressed. If "tuning error" appears, check the antenna (connection, ground, etc.).
- 2. Communicate with the handset. Confirm that IA and IC change with voice level.

3.4 System Setup

This section shows you how to enter the system settings, on the [SERVICE] menu.

3.4.1 How to open the SERVICE menu, do operations on the menu

- 1. Press the **MENU** key to open the menu.
- 2. Rotate the Rotary knob to select [SERVICE].
- 3. Enter the password to show the [SERVICE] menu.

SERVICE
💶 EQUIP TYPE 🔺 FS-2575
DSC SETUP
📧 RT SETUP 🕨 🕨
RESTORE FACTORY SETTINGS
📧 TEST 🔹 🕨
📧 MAINTENANCE LOG 🛛 🕨 🕨
T OTHER

- 4. Rotate the Rotary knob to select a menu then push the knob.
- 5. Rotate the **Rotary** knob to select a menu item then push the knob.
- 6. Rotate the Rotary knob to select an option (or set numeric value) then push the knob.
- 7. Press the **CANCEL** key to go backward in the menu, or press the **MENU** key to close the menu.

3.4.2 EQUIP TYPE menu

The system automatically detects the model name and displays the results, [FS-1575], [FS-2575] or [FS-5075].

3.4.3 DSC SETUP menu

The [DSC SETUP] menu sets up the system's DSC features.

41 %	SSB TX 2182.0/RX 2182.00 kHz 🐤
DSC SETUP	
MMSI	101110001
SIG DETECT S-LE	VEL : 10
DISTRESS ALARM	: 16
CLASS	: MF/HF
DSC/DSE SENTENC	E : ON
ILAST DISTRESS	LOGI
	/::
ℰ← : SELECT	CANCEL : BACK

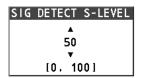
MMSI: Ship's MMSI (display only).

SIG DETECT S-LEVEL: Adjust the carrier sense threshold for DSC and PSTN. DSC transmission is delayed if the carrier level is lower than the level set here. Also, determine whether a DSC frequency is in use or not. A DSC message is not transmitted when the signal strength of the DSC frequency is lower than that set here. When the DSC frequency becomes clear, the DSC message is sent.

The carrier is checked at a specified interval during PSTN communications, and if the carrier level is lower than set here the line is disconnected.

Procedure

- 1) Select [SIG DETECT S-LEVEL].
- 2) Push the Rotary knob to show the [SIG DETECT S-LEVEL] adjustment window.



- 3) Rotate the Rotary knob to set the level.
- 4) Push the **Rotary** knob to finish.

DISTRESS ALARM: Set the audio level for the buzzer that sounds when a distress or urgent message is received.

CLASS: Set the function of the watch receiver: [MF/HF] (sea area A3), [MF] (sea area A1, A2), or [NON-GMDSS] (DSC function disabled).

DSC/DSE SENTENCE: Select ON to output DSC/DSE sentences (messages) from the IEC 61162-1 TD port.

LAST DISTRESS LOG: The name of the unit ("FS-xx75" or "ALARM UNIT") that transmitted the last distress alert and the date and time of transmission are shown here.

3.4.4 RT SETUP menu

RT SETUP
SETUP
SELF CHECK
DSC TEST
💶 TX PWR(FREQ)
<pre>ITX PWR(USER CH)</pre>
📧 TX PWR(TUNE)
TX PWR(SEL CALL)

<u>SETUP</u>

The [RT SETUP] menu sets functions according to needs and regulations and adjusts TX power.

ц»)	*	SSB TX 2	2182.0/RX	2	182.00	kHz 🗇
RT SE	TUP					
TX FREQ	: ALL FRE	T	DIVIDER	:	0FF	
AM MODE	: RX ONLY	Y	LINEIN	:	0	
CW	: DISABLE	E	LINEOUT	:	0	
LSB	: DISABLE	E	FORMAT	:	IEC	
SELCALL	: DISABLE	E	MIF	:	RS-2320	C
REF OSC	: 0					
CLARIFIE	R LIMIT	:				
TX TUNE		: ON				
COUPLER	THROUGH	RCVD				
RX ANT		DISCO	NNECT			
© CHE : SELE	СТ	CANCEL : B.	ACK			

TX FREQ: Select the frequencies to use. [ALL FREE]: Transmit on any frequency. [FREE]: Some restrictions to frequency use apply. For example, NBDP-use distress frequency can not be used for transmission in the SSB mode. [MARINE USER]: Use the frequency and radio type set in the marine band and the user channel. [ITU/USER]: Use the frequency and radio type set in the user channel or permitted with ITU channel. [USER]: Use the frequency and radio type set in the user channel.

AM MODE: Select the function of AM (H3E), [RX ONLY] (Receive only), or [TX/RX] (Send and receive.)

CW: Enable or disable CW. [ENABLE]: On, [DISABLE]: Off

LSB: Enable or disable LSB. [ENABLE]: On, [DISABLE]: Off

SELCALL: Enable or disable the selective call radio buoy feature. When enabled, function key **F3** is automatically assigned to the selective call buoy feature. [ENABLE]: On, [DISABLE]: Off

REF OSC: Tune the reference oscillator.

CLARIFIER LIMIT: Set the range for clarifier adjustment.

TX TUNE: Tune the Antenna Coupler. [ON]: tuning enabled, [OFF]: tuning disable

COUPLER THROUGH: Select the function of the Antenna Coupler at RX.

[OFF]: RX signal passes through the matching network. [RCVD]: RX signal does not pass through the matching network. [DIFF]: Same as [OFF] if TX and RX frequencies are the same.

RX ANT: Select whether an RX antenna is connected or not. [CONNECT]: RX antenna connected. [DISCONNECT]: RX antenna not connected

3. INITIAL SETTINGS

DIVIDER: Divider connection. [ON]: Divider connected. [OFF]: Divider not connected.

LINEIN: Adjust the input sensitivity of the device connected to the LINE IN terminal (25 D-SUB 25 pin).

LINEOUT: Adjust the output level of the device connected to the LINE OUT terminal (25 D-SUB 25 pin).

FORMAT: Select the NMEA sentence format to use. [IEC]: Receives only IEC-61162-1 complying sentences. Receive analysis not done unless a checksum is present. [IEC+NMEA]: Tries to receive NMEA ver. 1 - 3 sentences as much as possible. Receive analysis done regardless of presence or absence of checksum.

MIF: Select the format for the remote terminal, RS-232C or RS-422.

TX PWR (FREQ)

□ [1]	X	SSB TX 2182.0)/RX 2182.00 kHz 📞	
ТХ	POWER	(FREQ)		
TX TX TX	MODE FREQ Power Power Adj Tone	: SSE : 2182.0 kHz : HIGH : - : -		
	IC	xx.xA xx.xA xx.xV xx.xV	IC1 < x.xA*	PA1 current PA2 current VC of PA2
¢–	SELECT	CANCEL : BACK		

* Shown for FS-5075 only

TX power can fluctuate on certain frequencies depending on antenna location. If this occurs, adjust the TX power on the problem frequency.

TX MODE: Select the mode for which to set TX power.

TX FREQ: Select the frequency.

TX POWER: Set the output level.

TX POWER ADJ: Set the TX power.

TX TONE: Output tone.

LOAD DEFAULT: Restore default TX power (frequency) settings.

Procedure

- 1) Set [TX MODE], [TX FREQ] and [TX POWER] as applicable. [TX POWER ADJ] shows the current TX power setting for item selected.
- 2) Press the PTT switch to show IA, IC, VC and VS figures.
- 3) Select [TX POWER ADJ], push the **Rotary** knob, rotate the knob to adjust TX power then push the knob.

Note: To get a tone signal from the speaker, set [TX TONE] to other than OFF. The frequency of the tone is as follows: SSB: 1500 Hz; 1100 Hz and 1700 Hz; 700 and 1700 Hz, DSC/NBDP: 1615 Hz; 1785 Hz; DOT, CW: Side tone frequency.

TX PWR (USER CH)

-4.4	a. 61			
4 1)/RX 2182.00 kHz 🦢	
ТХ	POWER	(USER CH)		
ТХ	MODE	: SSB		
TX	СН	:	TX∢ kHz	
ТХ	POWER	: HIGH	RX∢kHz	
TX	POWER ADJ	: -		
ТХ	TONE	: -		
		IXX.XA] IC1◀ x.xA* ◀	PA1 current
		IXX.XA	IC2 🛛 x.xA* 🔸 🛶	PA2 current
	VC Inconcerne	Vx.xV	VC24 x.xV*	VC of PA2
	VS processo	Vx.xV		VOULTAZ
			<pre>LOAD DEFAULT></pre>	
°	SELECT	CANCEL : BACK		

^{*} Shown for FS-5075 only

TX power on user channels can fluctuate according to antenna location. If this occurs, adjust the TX power on user channels.

TX MODE: Select the mode for which to set TX power.

TX FREQ: Select the frequency.

TX POWER: Set the output level.

TX POWER ADJ: Set the TX power.

TX TONE: Output tone.

LOAD DEFAULT: Restore default TX power (user channel) settings.

Procedure

- 1) Set [TX MODE], [TX FREQ] and [TX POWER] as applicable. [TX POWER ADJ] shows the current TX power setting for item selected.
- 2) Press the PTT switch to show IA, IC, VC and VS figures.
- 3) Select [TX POWER ADJ], push the **Rotary** knob, rotate the knob to adjust TX power then push the knob.

Note: To get a tone signal from the speaker, set [TX TONE] to other than OFF. The frequency of the tone is as follows: SSB: 1500 Hz; 1100 Hz and 1700 Hz; 700 and 1700 Hz, DSC/NBDP: 1615 Hz; 1785 Hz; DOT, CW: Side tone frequency.

3. INITIAL SETTINGS

TX PWR (TUNE)

[[]	*	SSB TX 2182.0)/RX 2182.00 kHz 📞	
TX	POWER	(TUNE)		
	FREQ POWER ADJ	: <u>2182.0 kHz</u> : 75		
		xx.xA] IC1	—— PA1 current
		xx.xA		PA2 current
		xx.xv xx.xV	VC2 ×.×V*	VC of PA2
¢	SELECT	CANCEL : BACK		

* Shown for FS-5075 only

Tune output power.

TX FREQ: Select the frequency.

TX POWER ADJ: Set the TX power.

LOAD DEFAULT: Restore default TX tune settings.

Procedure

- 1) Set [TX FREQ] as applicable. [TX POWER ADJ] shows the current TX power setting for item selected.
- 2) Press the PTT switch to show IA, IC, VC and VS figures.
- 3) Select [TX POWER ADJ], push the **Rotary** knob, rotate the knob to adjust TX power then push the knob.

TX PWR (SELCALL)

	SSB TX 2182.0/RX 2182 SEL CALL)	00 kHz 📡
TX POWER ADJ :	105	
IA □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	IC1	A* - PA2 current

* Shown for FS-5075 only

Tune output power on selcall frequencies.

TX POWER ADJ: Set the TX power.

LOAD DEFAULT: Restore default selcall TX power settings.

Procedure

1) Press the PTT switch to show IA, IC, VC and VS figures.

2) Select [TX POWER ADJ], push the **Rotary** knob, rotate the knob to adjust TX power then push the knob.

See the next several pages for sample antenna connections.

3.4.5 OTHER menu

u) %	SSB TX	2182.0/RX	2182.00	kHz 🧊
OTHER				
	ON OFF	[for DEVE DEBUG MOI		F
ALARM UNIT :	DISCONNECT	г		
SOFTWARE ERAS	E			
₢← : SELECT	CANCEL :	ВАСК		

PA: Lower output power. Select [OFF] to lower the output power. Reset the power to affect the change. For the service technician.

P-BROWSER: Select ON to enable the parameter browser, controlled from a PC.

ALARM UNIT: Select [CONNECT] if Alarm Unit IC-350 is connected.

SOFTWARE ERASE: For the service technician. See the service manual.

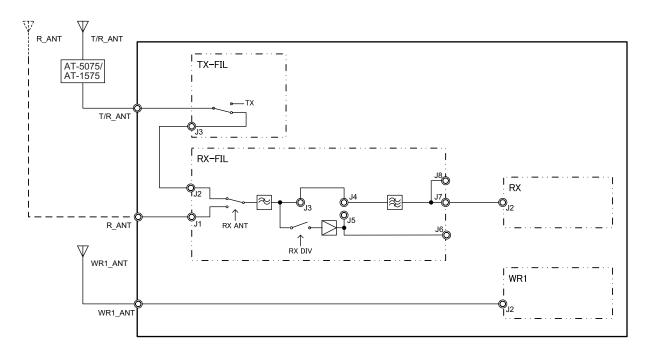
DEBUG MODE: For the developer. Leave the debug mode [OFF].

3.4.6 Example antenna configurations

Standard configurations

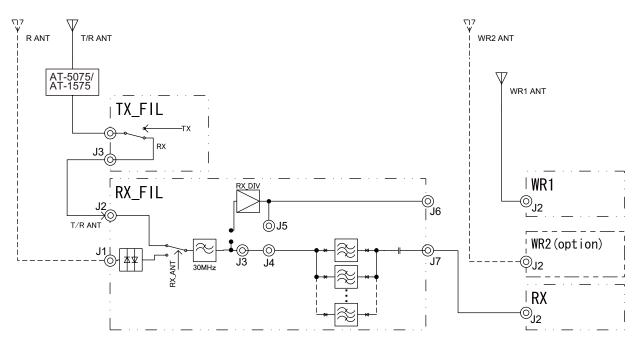
Standard configuration 1: Separate R_ANT and WR1 antennas

To connect R. ANT, set [RX ANT] on the [RT SETUP] menu to [CONNECT].



Standard configuration 2: Separate R_ANT and WR1 antennas, optional WR2 board installed

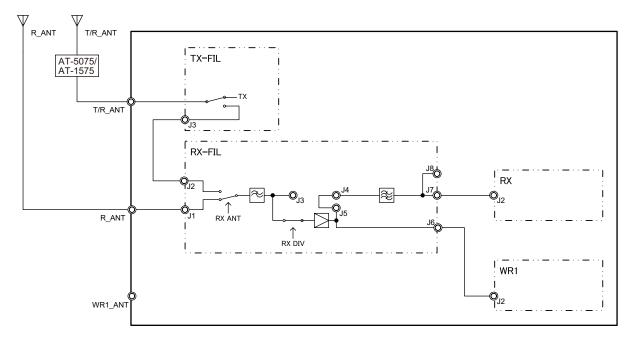
To connect R. ANT, set [RX ANT] on the [RT SETUP] menu to [CONNECT].



Shared antenna configurations

Shared antenna configuration 1: R_ANT and WR1 antennas commonly shared

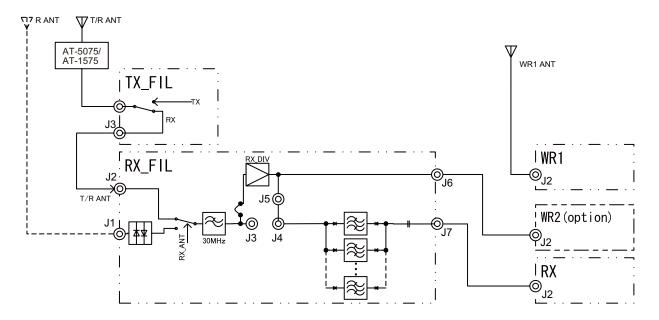
- 1) Turn on [DIVIDER] in the [RT SETUP] menu of the [SERVICE] menu.
- 2) Set [RX ANT] on the [RT SETUP] menu in the [SERVICE] menu to [CONNECT].
- 3) Use the mini-pin assemblies (supplied) to make these connections:
 - · Connect J4 to J5 on the RX FIL Board.
 - Connect J6 on RX FIL Board to J2 on WR1 Board.



Shared antenna configuration 2: R_ANT and WR2 antennas commonly shared

Optional WR2 Board installed to watch on DSC general frequencies.

- 1) Turn on [DIVIDER] in the [RT SETUP] menu.
- 2) Set [RX ANT] on the [RT SETUP] menu to [CONNECT].
- 3) Use the mini-pin assemblies (supplied) to make these connections:
 - Connect J4 to J5 on the RX FIL Board.
 - Connect J6 on RX FIL Board to J2 on WR1 Board.

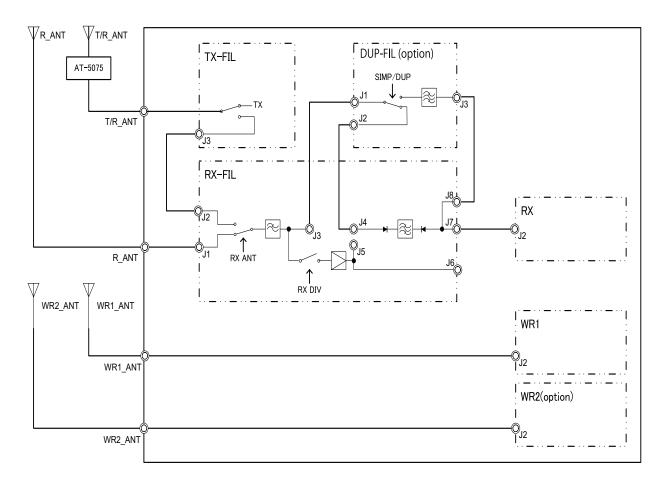


3. INITIAL SETTINGS

Full duplex configurations (FS-5075 only)

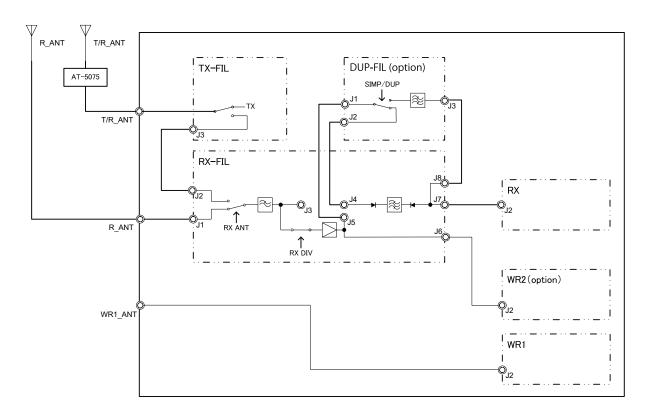
Full duplex configuration 1: Separate R_ANT and WR1 antennas, optional DUP-FIL board installed

Watch on DSC general frequencies available with installation of optional WR2 Board. Set [RX ANT] on the [RT SETUP] menu in the [SERVICE] menu to [CONNECT].



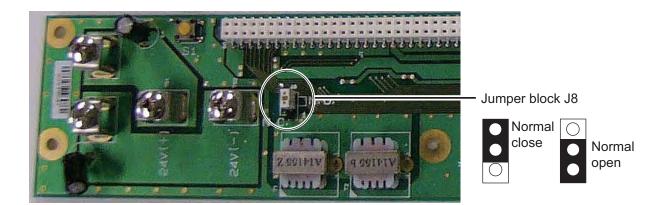
Full duplex configuration 2: R_ANT and WR1 (or WR2) antennas commonly shared

Turn on [DIVIDER] in the [RT SETUP] menu. Set [RX ANT] on the [RT SETUP] menu to [CON-NECT].



3.5 Alarm Contact Signal

Set the format of the alarm contact signal for normal close or normal open, with the jumper block J8 on the T-IF Board (05P0861).



3.6 I/O Data

Data	Input/Output	Sentence, priority order
Position info, Position fix	Input	GNS>GGA>RMC>GLL
Time info	Input	ZDA>RMC
DSC information, Expanded DSC	Output	DSC, DSE

APPENDIX 1 JIS CABLE GUIDE

Cables listed in the manual are usually shown as Japanese Industrial Standard (JIS). Use the following guide to locate an equivalent cable locally.

JIS cable names may have up to 6 alphabetical characters, followed by a dash and a numerical value (example: DPYC-2.5). For core types D and T, the numerical designation indicates the *cross-sectional Area* (*mm*²) of the core wire(s) in the cable. For core types M and TT, the numerical designation indicates the *number of core wires* in the cable.

 1. Core Type D Double core power line T Triple core power line 	2. Insulation Type P Ethylene Propylene Rubber	3. Sheath Type Y PVC (Vinyl)	DPYCY
M Multi core	tions (10-quad cable)		
4. Armor Type	5. Sheath Type	6. Shielding Type	TPYCY
C Steel	Y Anticorrosive vinyl sheath	SLA All cores in one shield, plastic tape w/aluminum ta	
		-SLA Individually shielded cores plastic tape w/aluminum ta	
			MPYC-4
EX: $DPYCYSI$	<u>⁶</u> LA - <u>1.5</u> <u>MI</u>	² ³ ⁴ - <u>4</u>	
Designation type _ Core	re Area (mm²) J Designation type	# of cores	TTYCSLA-4

The following reference table lists gives the measurements of JIS cables commonly used with Furuno products:

	Core		Cable		Core		Cable
Туре	Area	Diameter	Diameter	Туре	Area	Diameter	Diameter
DPYC-1.5	1.5mm ²	1.56mm	11.7mm	TPYCY-1.5	1.5mm ²	1.56mm	14.5mm
DPYC-2.5	2.5mm ²	2.01mm	12.8mm	TPYCY-2.5	2.5mm ²	2.01mm	15.5mm
DPYC-4	4.0mm ²	2.55mm	13.9mm	TPYCY-4	4.0mm ²	2.55mm	16.9mm
DPYC-6	6.0mm ²	3.12mm	15.2mm	TPYCYSLA-1.	5 1.5mm ²	1.56mm	13.9mm
DPYC-10	10.0mm ²	4.05mm	17.1mm	TTYC-7SLA	0.75mm ²	1.11mm	20.8mm
DPYC-16	16.0mm ²	5.10mm	19.4mm	TTYCSLA-1	0.75mm ²	1.11mm	9.4mm
DPYCY-1.5	1.5mm ²	1.56mm	13.7mm	TTYCSLA-1Q	0.75mm ²	1.11mm	10.8mm
DPYCY-2.5	2.5mm ²	2.01mm	14.8mm	TTYCSLA-4	0.75mm ²	1.11mm	15.7mm
DPYCY-4	4.0mm ²	2.55mm	15.9mm	TTYCY-4SLA	0.75mm ²	1.11mm	19.5mm
DPYCYSLA-1.5	1.5mm ²	1.56mm	11.9mm	TTYCYSLA-1	0.75mm ²	1.11mm	11.2mm
DPYCYSLA-2.5	2.5mm ²	2.01mm	13.0mm	TTYCYSLA-4	0.75mm ²	1.11mm	17.9mm
MPYC-2	1.0mm ²	1.29mm	10.0mm				
MPYC-4	1.0mm ²	1.29mm	11.2mm				
MPYC-7	1.0mm ²	1.29mm	13.2mm				
MPYCY-12	1.0mm ²	1.29mm	19.0mm				
MPYCY-19	1.0mm ²	1.29mm	22.0mm				

1/1	A-1	0' TY]]]						
05ER-X-9851 -0	1	DESCRIPTION/CODE No. 0		FS-1575T-J/E/J-HK	000-020-900-00 **		CD05-12001	001-135-560-00		0M*56770*	000-175-164-1* **	05*-56770-*	000-175-166-1* **		000-175-168-1* **
IG LIST		OUTLINE		208 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	390	INSTALLATION MATERIALS				210	297	210	297	210	297
PACKING	FS-1575T-J/E/J-HK	NAME		送受信部	TRANSCEIVER UNIT	工事材料 INSTALLA	工事材料	INSTALLATION MATERIALS	図書 DOCUMENT	取扱説明書	OPERATOR'S MANUAL	操作要領書	OPERATOR'S GUIDE	装備要領書	INSTALLATION MANUAL

PACKING LIST

05E0-X-9851 -1 1/1

A-2

FS-2575T-J/E/J-HK		
NAME	OUTLINE	DESC
= » h UNIT		

NAME		OUTLINE	DESCRIPTION/CODE No.	Q' TY
11 ° T	UNIT			
送受信部		208	FS-2575T-J/F/J-HK	-
TRANSCEIVER UNIT		510	000-019-234-00 **	
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INSTALLATION MATERIALS		$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	001-135-560-00	-
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取扱説明書		210		
OPERATOR'S MANUAL		297	OM*-56770-*	-
			000-175-164-1* **	
操作要領書		210	011101	-
OPERATOR' S GUIDE		297	05*-56//0-* 000-175-166-1* **	-
装備要領書		210 ×		

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IM*-56770-*

INSTALLATION MANUAL

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000-175-168-1*

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コ+) 番号末尾の[i++]は、選択品の代表コ+) を表します。 CODE NUMBER ENDING WITH "++" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

C5677-Z01-B

C5676-Z01-A

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

LIST	
PACKING	FS-5075T-J/E/J-HK

05E0-X-9852 -1 1/1 A-3

0' TY

DESCRIPTION/CODE No.

OUTLINE

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CP05-12001

001-135-560-00

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000-019-237-00

650

INSTALLATION MATERIALS

FS-5075T-J/E-J-HK

340

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K

208

TRANSCEIVER UNIT

日事材料

工事材料

UNIT

コット

送受信部

NAME

LIST PACKING

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FS-2575C-J-A/E-A/J-A-HK		¥		t
NAME		OUTLINE	DESCRIPTION/CODE No.	0, ΙΥ
ユニット	UNIT			
操作表示部		258		-
CONTROL UNIT			FS-25/5C-J/E/J-HK	-
付属品	ACCESSORIES	IES		
ハント・セット		200		
HANDSET			HS-2003-15	-
いいド、セットハンガ、一組品			00-088-010-000	
RPACKET FOR HANDSET		121	FP05-05510	-
		208	005-951-790-00	
付属品				Ŧ
ACCESSORIES			FP05-05511	-
日本はお	INSTALLA	INSTALLATION MATERIALS	005-951-920-00 CP05-12110	
ケーブ ル組 品		0		
CABLE ASSEMBLY		NS=	DSUB15-5P-L5M 001-116-850-10	.
工事材料				
INSTALLATION MATERLALS		\wedge	CP05-12101	-
)	001-135-570-00	
2	DOCUMENT			
遭難警報7n-(HF)		210	±52 00102 ±	-
DISTRESS ALERT CHART (HF)	Ē	297	*32-00102-* 000-809-271-1* **	-
遭難警報7n-(VHF/MF)		210		
DISTRESS ALERT CHART (VHFMF)	FMF)	297	*52-00101-*	.
			000-809-269-1* **	

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0S*-56770-*

210

297

OPERATOR' S GUIDE

操作要領書

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INSTALLATION MANUAL

装備要領書

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DOCUMENT

INSTALLATION MATERIALS

297

OPERATOR' S MANUAL

取扱説明書

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コ+) 番号末尾の[++]は、選択品の代表コ+) を表します。 CODE NUMBER ENDING WTH **** INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

C5677-Z06-A

C5678-Z01-B

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME.

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

LIST	
PACK I NG	FS-2575C-J-N/E-N/J-N-HK

05E0-X-9853 -1 1/1 A-5

PAC	N I N	PACKING LIST	05ER-X-9852 -0 1/1	0 1/1
AT-1575-AES/-HK	¥			A-6
NAME		0 U T L I N E	DESCRIPTION/CODE No.	Q' TY
ユニット	UNIT			
アンテナカフ。ラ				,
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		392 6	000-020-911-00 **	-
工事材料	INSTALLAT	INSTALLATION MATERIALS		
工事材料		(
INCTALLATION MATERIAL C		∕\ √	CP05-12901	-

001-175-190-00

INSTALLATION MATERIALS

FS-2575G-J-N/E-N/J-N-HK	¥		
A M E	ONTLINE	DESCRIPTION/CODE No.	Q' TY
ユニット UNIT			
操作表示部	258	FS-267561/F / .I_HK	-
LIN	93 127	000-019-240-00 **	
付属品 ACCESSORIES	IES	FP05-06600	
ハント・セット	200	HS-2003-15	-
HANDSET	L=1.5M	000-015-996-00	
ハンド、セットハンカ、一組品	A Lev	TOAE AEEIA	-
BRACKET FOR HANDSET	208	005-951-790-00	-
付属品			
ACCESSORIES		FP05-05511	-
工事材料 INSTALLA	INSTALLATION MATERIALS	CP05-12100	
工事材料		CP05-12101	-
LATION MATERIALS		001-135-570-00	
図書 DOCUMENT			
遭難警報フロー(HF)	210	. 10 00100 -	
DISTRESS ALERT CHART (HF)	297	*32-00102-* 000-809-271-1* **	-
遭難警報7n-(VHF/MF)	210	*52-00101-*	-
DISTRESS ALERT CHART (VHFMF)	297	000-809-269-1* **	

그-P'番号末尾の[++e]は、選択品の代表コ-P'を表します。 CODE NUMBER ENDING WITH "++* INDIGATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。 (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.) C5677-Z02-B

コ-ド番号末尾の[セ*jlt、選択品の代表コードを表します。 CODE NUMBER ENDING WTH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY)

C5676-Z02-A

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AT-5075/HK				È
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AN LENNA CUUPLER			000-019-243-00 **	
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NAME				۲ ۲
出版	SPARE PARTS	RTS		8
ለንኑ ቲット		200		
			HS-2003-15	-
HANDSEI				
		L=1.5M 00000	000-015-996-00	
予備品				
			SP05-06001	-
SPARE PARIS		\rangle		
			001-135-530-00	

-

CP05-12201

INSTALLATION MATERIALS

工事材料

001-135-590-00

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。 (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.) C5677-Z04-A

C5677-Z03-A

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME.

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

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SP05-06100

NAME	0 0	OUTLINE	DESCRIPTION/CODE No.	Q' TY
AS 中華	SPARE PARTS			
ハント セット	200	1		
HANDCET	<u> </u>		HS-2003-15	-
	L=1	L=1.5M 000000	000-015-996-00	
予備品		{		
CDARF DARTS	<u> </u>	<u> </u>	SP05-06101	-
ט אוור ו אוויס	/)	001-135-540-00	

DESCRIPTION/CODE No. Q' TY	
0 U T L I N E	
N A M E ⊒ = ∞ F	
	NAME 0 UTLINE DESCRIPTION/CODENC.

-			-	-	
HS-2003-15	000-015-996-00			2PU3-U03UI	001-174-840-00
	Te	2		$\mathbf{\hat{\mathbf{A}}}$	
	CDADE DADTO				
 ለント [*] ቂット HANDSET	又体口		予備品	SPARE PARTS	

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

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C5676-Z04-A

C5677-Z05-A

		AT -50							
		工事材料表	INSTALLATION MATERIALS	名 NAME 考	ን [*]	六角ナット 1シュ HEXAGONAL NUT	ミが キ平 座 金 FLAT WASHER	六角スリワリ セムスA HEX.BOLT(SLOTTED WASHER HEAD)	
		Η	INST/	卷 2.	-	7	m	4	
05E0-X-9403 -2	1/1			用途/備考 REMARKS					
				数量 0, TY	9	~	-	و ن	-
001-135-560-00	CP05-12001			型名/規格 DESCRIPTIONS	304 000-162-614-10	GSC-100/MP-7 CODE NO. 000-166-977-10		M6 P. C 20DE N0.	
CODE NO.	TYPE			臣 授	6X30 SUS304 6X30 SUS304 CODE NO.	GSC-100/N CODE NO.	;-0	M6 P. C CODE NO.	XM2S-2513-S014
	_	E S16767 /96767 /60767		略 図 OUTLINE	8 minum 4 6	¢II	L=380	@]3	
		工事材料表	NSTALLATION MATERIALS	名 称 NAME	+۲۶۶۶۶۲ ک¢۲ انجا SELF-TAPPING SCREW	⊐\$-05 (M) COAXIAL CONNECTOR *#M TYPE*	ミニビン組品(1) MINI PIN ASSY(1)	★ [・] りわフッシャ POLYCARBONATE WASHER	a\$7\$ (XM2) connector(d-sub)
		事	TLAT		+Þ5.A SELF	COA TYPI	MIN	FoL ^{*,} '	CON 14

						!	
		_	CODE NO.	001-135-590-00		05E0-X-9405 -0	
			TYPE	CP05-12201		1/1	
Н	工事材料表						
		AT-5075/HK					
INST	INSTALLATION MATERIALS						
番号	名称	略図	— 一	型名/規格	数量	用途/備考	
NO.	NAME	OUTL INE	DESC	DESCRIPTIONS	Q' TY	REMARKS	
	り゛ ラント゛ ハ゜ ツキン1	, φ18 ,					
-	GPOLIND CASKET 1		05-106-3619-0	619-0	1		
		6	CODE NO.	100-366-120-10			
	六角ナット 1シュ	Č,					
2	HEXAGNNAL NIT		M6 SUS304	4	4		
		01	CODE NO.	000-158-856-10			
	ミが*キ平座金						
с	FI AT WASHER	¢13	M6 SUS304	4	8		
		0	CODE NO.	000-158-854-10			
							_

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30 M6X30 SUS304 M6X30 SUS304

, CODE NO. 000-162-937-10

DIMENSIONS IN DRAWING FOR REFERENCE ONLY.) Furuno electric co ., ltd.

型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。 TWD TYPES AMD CODES MAY BE LISTED FOR AM ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

翌式/コード番号が2段の場合、下段より上段に代わる過速期品であり、どちらかが入っています。 なお、品質は変わりません。 TWO TYPES AMD CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. UMLITY IS THE SAME. (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

FURUNO ELECTRIC CO ., LTD.

C5677-M05-A

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C5677-M03-C

工事材料表 INSTALLATION MATERIALS MARE NO. キーブ・あ(5P) 1 5P TWISTED PAIR CABLE アーブ・あ(5P) 2 5P TWISTED PAIR CABLE 7-ブ・あ(5P) 3 5P TWISTED PAIR CABLE 7-ブ・あ(5P) 3 5P TWISTED PAIR CABLE	Mr-1575/1576-HK/5075/5075- HK (cP06123++/108++) MR IN 0011LINE L=1014 L=2014 L=2014 L=3004	5- 型名/換格 DESORIPTIONS		
ALLATION MATERIALS ALLATION MATERIALS P-7' & (5P) SP TWISTED PAIR CABLE P-7' & (5P) SP TWISTED PAIR CABLE P-7' & (5P) SP TWISTED PAIR CABLE SP TWISTED PAIR CABLE	ID34*/108**) ID1LINE 00TLINE L=10M L=20M L=30M			
hMME h-7' k (5P) 5P TWISTED PAIR CABLE h-7' k (5P) 5P TWISTED PAIR CABLE 5P TWISTED PAIR CABLE 5P TWISTED PAIR CABLE 5P TWISTED PAIR CABLE	L=10M L=10M L=20M	DESCRIPTIONS	数量	用途入備考
7-7' # (5P) 5P TWISTED PAIR 7-7' # (5P) 5P TWISTED PAIR 7-7' # (5P) 5P TWISTED PAIR 5P TWISTED PAIR 7-7' # (5P) 7-7' # (5P)			0, TY	REMARKS
7-7' & (SP) 5P TWISTED PAIR 7-7' & (SP) 5P TWISTED PAIR 5P TWISTED PAIR		05S0793-0 *10M* CODE NO.	-	(*2) 選択 TO BE SELECTED
<i>h−7°</i> 𝑘(5P) 5P TWISTED PAIR <i>h−7°𝑘</i> (5P)		0550793-0 *20M* code No. 000-125-986-10	-	(*2) 選択 10 BE SELECTED
7-7° JJ (5P)		05S0793-0 *30M* CODE NO. 000-125-987-10	-	(*2) 選択 T0 BE SELECTED
4 5P TWISTED PAIR CABLE	L=40M	05S0793-0 *40M* CODE N0 00-125-988-10	-	(*2) 選択 T0 BE SELECTED
5 5P TWISTED PAIR CABLE	L=50M	05S0793-0 *50M* CODE NO. 000-125-989-10	-	(*2) 選択 T0 BE SELECTED
6 CABLE (7C)	L=10M	05S0952 *10M* CODE NO. 000-758-821-10	-	(*1) 選択 T0 BE SELECTED
7 CABLE (70)	L=20M	05S0952 *20M CODE N0 000-758-822-10	-	(*1) 選択 T0 BE SELECTED
8 CABLE (7C)	L=30M	05S0952 *30M* CODE NO. 000-758-823-10	-	(*1) 選択 T0 BE SELECTED
9 CABLE (7C)	L=40M	05S0952 *40M* CODE N0 000-758-824-10	-	(*1) 選択 T0 BE SELECTED
10 CABLE (70)	L=50M	05S0952 *50M* CODE N0 000-758-225-10	-	(*1) 選択 T0 BE SELECTED

	FURUNO		CODE NO.	CODE NO. 001-175-190-00		05ER-X-9401 -0
			TYPE	CP05-12901		1/1
Η	工事材料表					
I NST/	INSTALLATION MATERIALS					
略 90.	名 NAME	略 図UTLINE	문 동	型名/規格 DESCRIPTIONS	数量 0'TY	用途人備考 REMARKS
-	+†^*¢%لالا گ¢¢* ددا تماممیس محموس	1 20	6X20 SUS304	6X20 SUS304	4	
		& amununity	CODE NO.	000-163-871-10		
	≳ガキ平座金	ç 4				
2	FLAT WASHER		M6 SUS304 CODE NO.	4	4	
				000-158-854-10		

型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。 TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

FURUNO ELECTRIC CO ., LTD.

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A-13

C5676-M01-A

C5677-M06-B

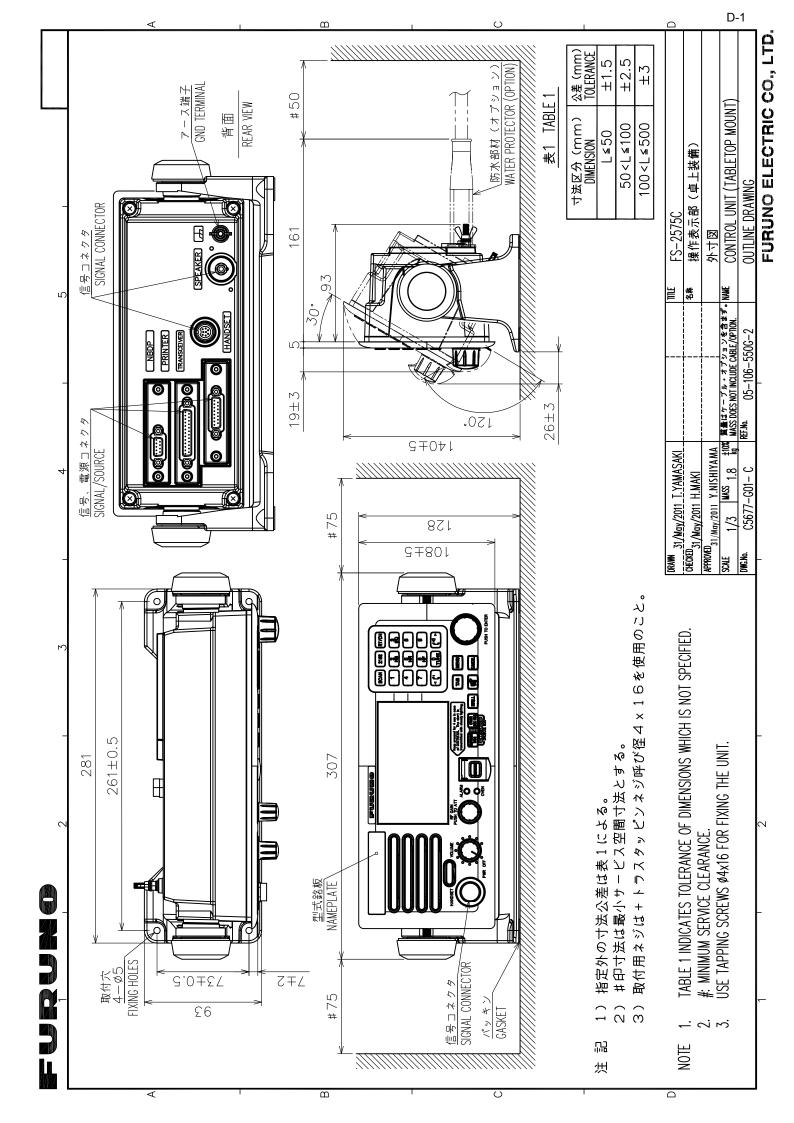
FURUNO ELECTRIC CO ., LTD.

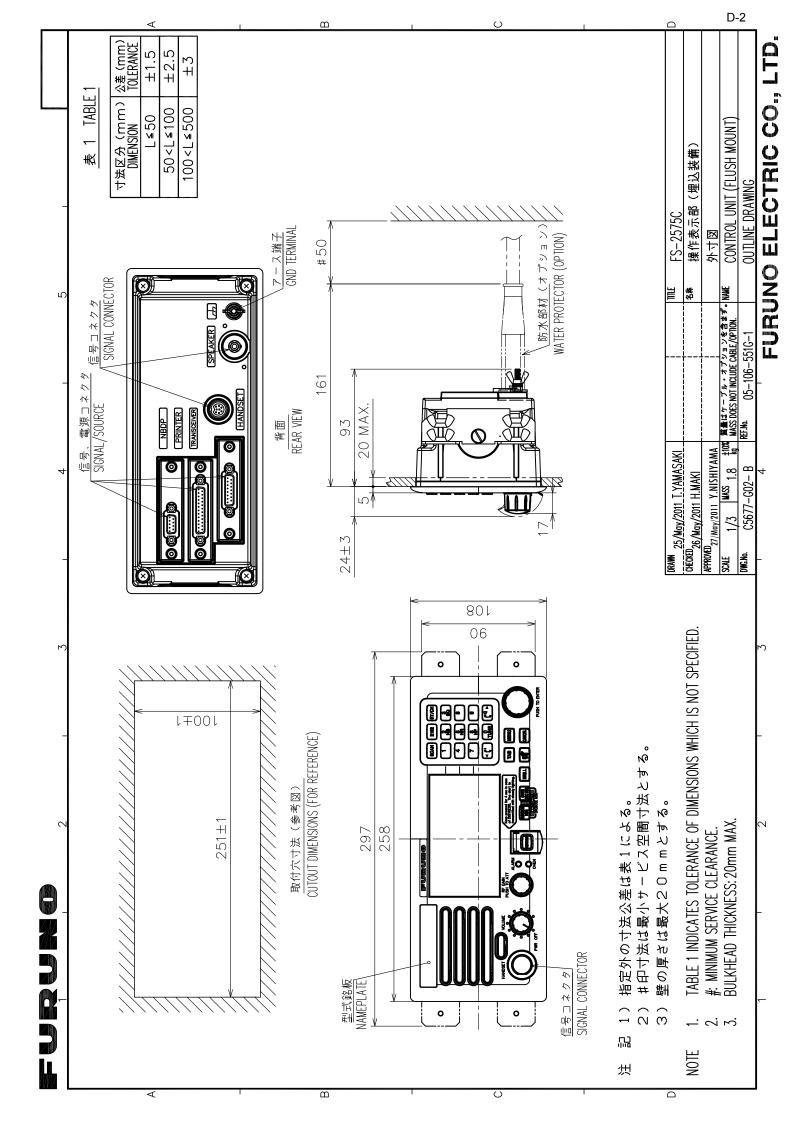
A-15

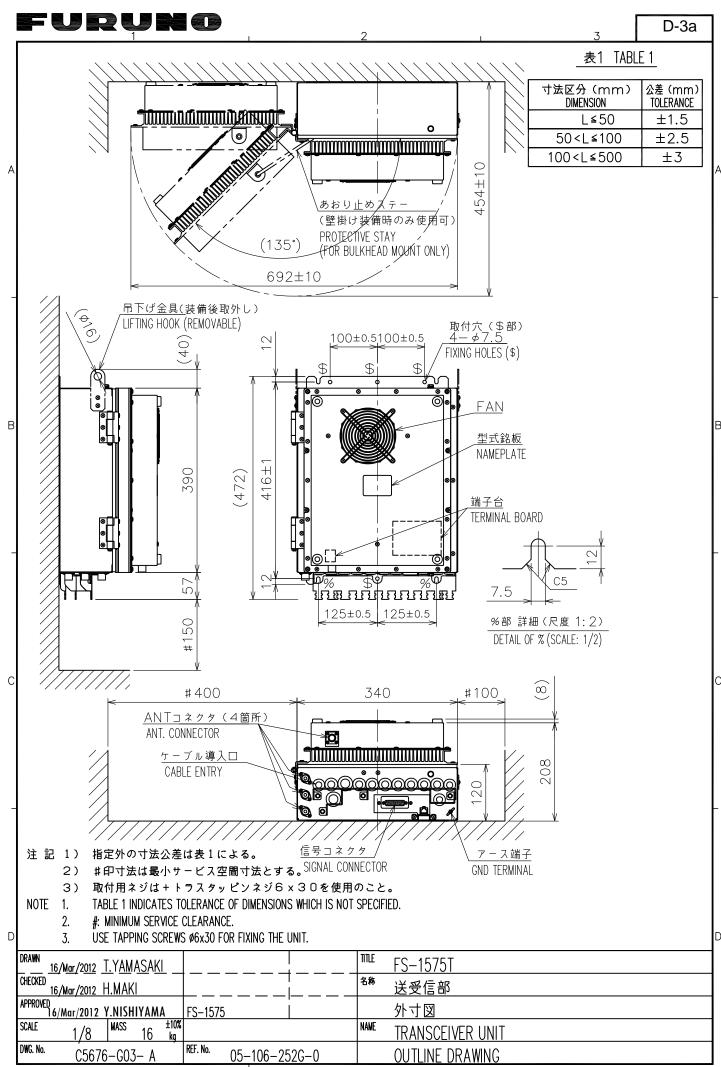
l								
			code no.			05E0-	05E0-X-9409 -1	
		1	TYPE	CP05-124**				1/1
Η	事材料表	10, 1676 /6776						
INST	INSTALLATION MATERIALS	6106/6167/6161-61						
権	名称	略図	⁴	型名/規格	数量		用途ノ備考	ыг
NO.	NAME	OUTLINE	DESC	DESCRIPTIONS	Q' TY		REMARKS	
	ケーブ ル組品	e				*選択	TO BE SELECTED	LECTED
-	CARLE ASSEMBLY		DSUB15-5P-L10M	-L10M	-			
		L=10M	CODE NO.	001-146-860-10				
	ケーブ ル組品					*選拐	TO BE SELECTED	LECTED
2	CARLE ACCEMBLY		DSUB15-5P-L20M	-L20M	-			
		L=20M	CODE NO.	001-146-870-10				
	1-7、1)組品					*選択	TO BE SELECTED	LECTED
ę	CARLE ASSEMBLY		DSUB15-5P-L30M	-L3OM	-			
		L=30M	CODE NO.	001-146-880-10				
	ケーブル組品	6				*選択	TO BE SELECTED	LECTED
4	CARLE ASSEMBLY		DSUB15-5P-L40M	-L40M	-			
		L=40M	CODE NO.	001-146-890-10				
	ケープ ル組品					*選択	TO BE SELECTED	LECTED
2	CARLE ASSEMBLY		DSUB15-5P-L50M		-			
		M05=1	CODE NO.	001-146-900-10				

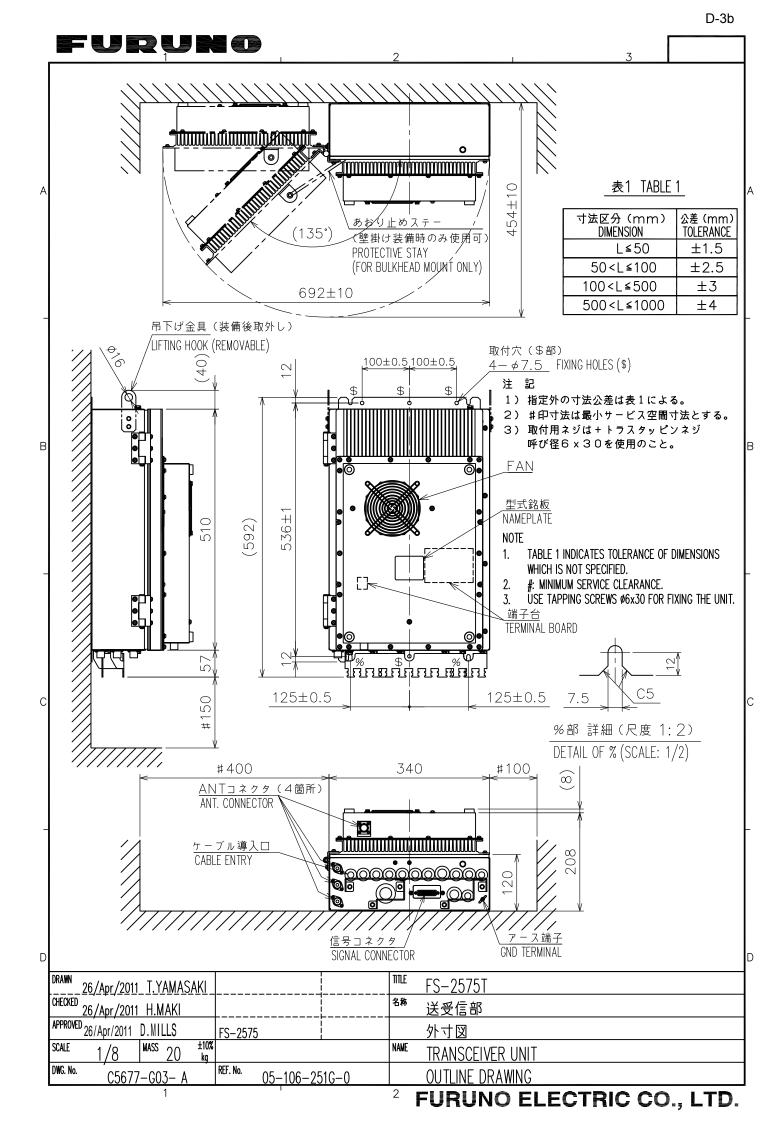
FURUNO ELECTRIC CO ., LTD.

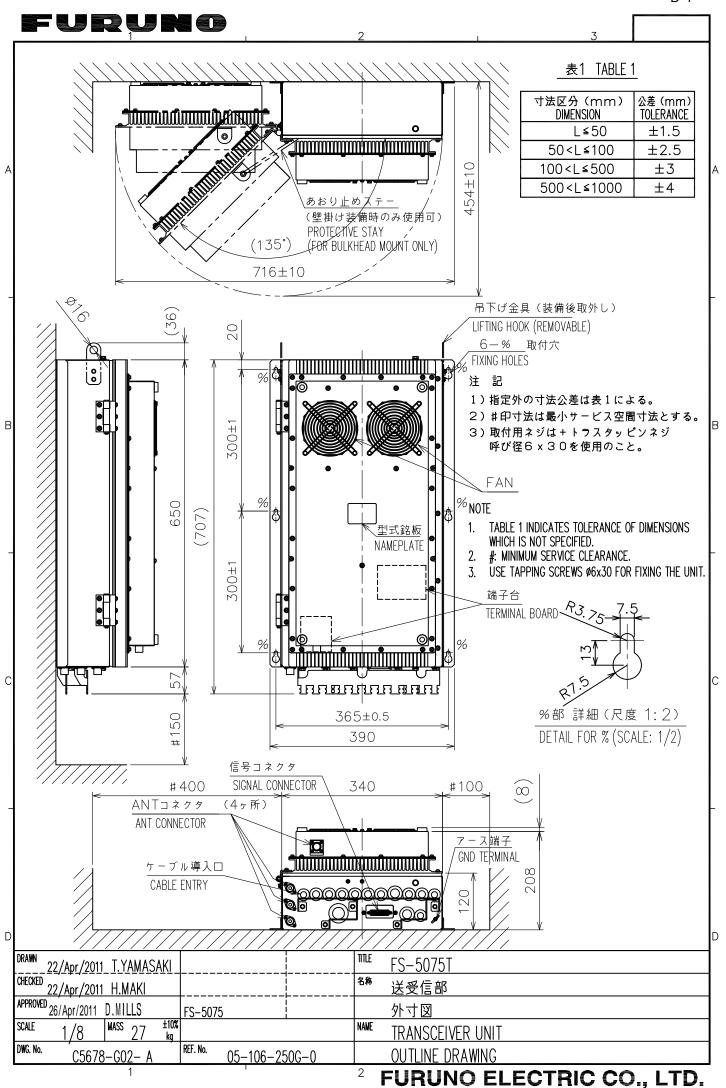
型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。 TWD TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. (略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.) C5677-M08-B



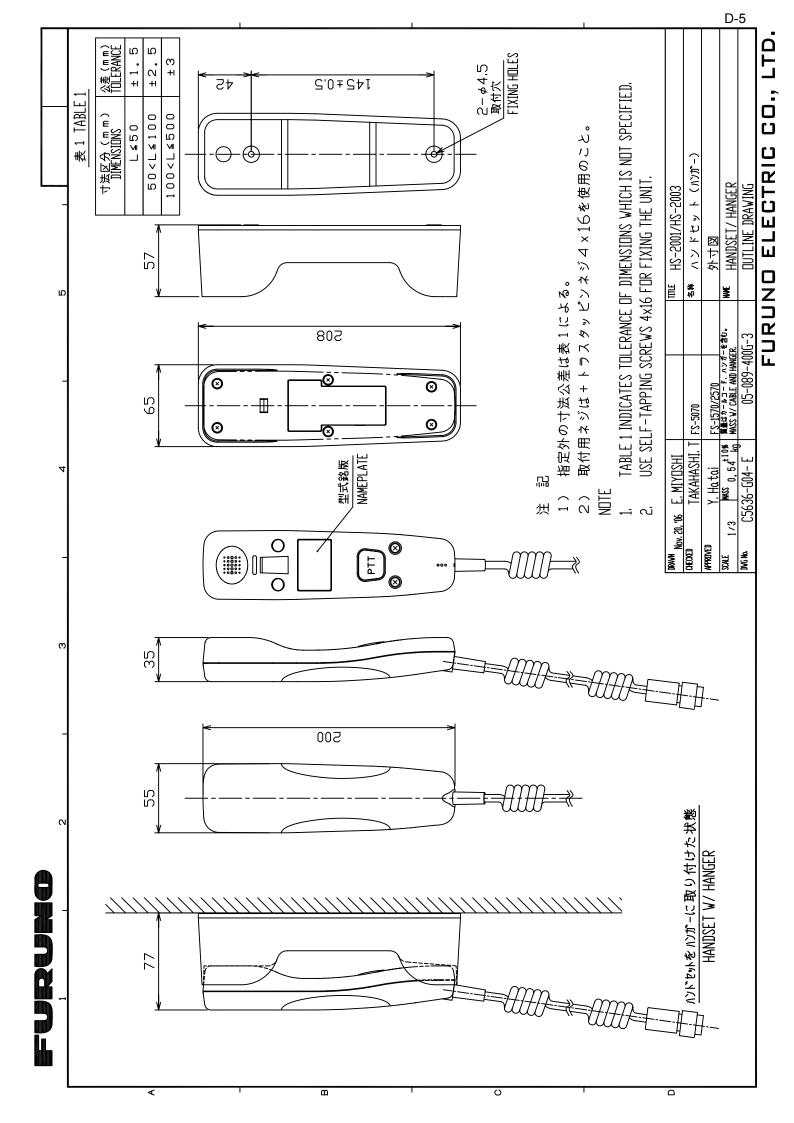


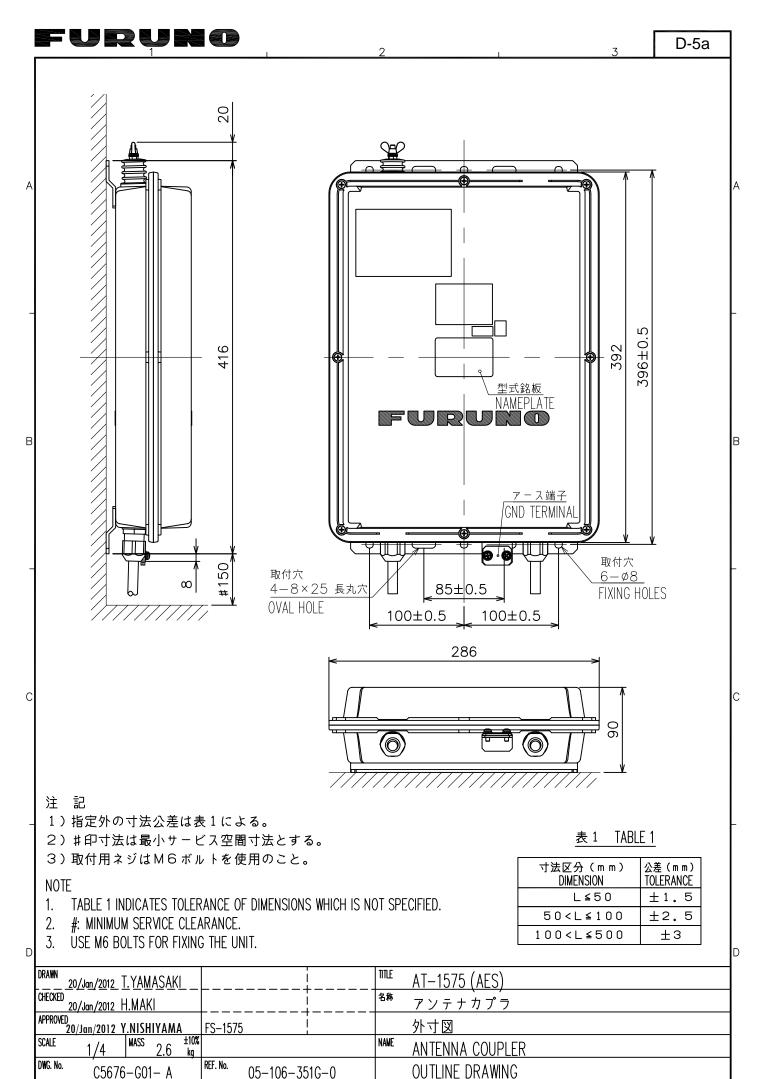


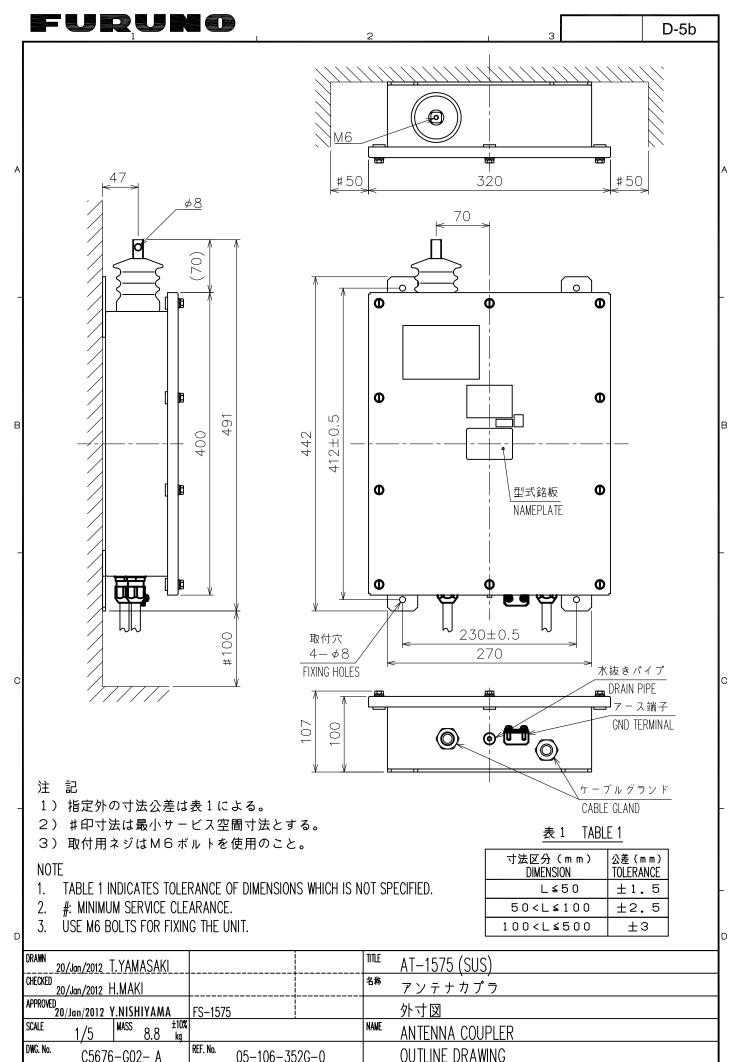


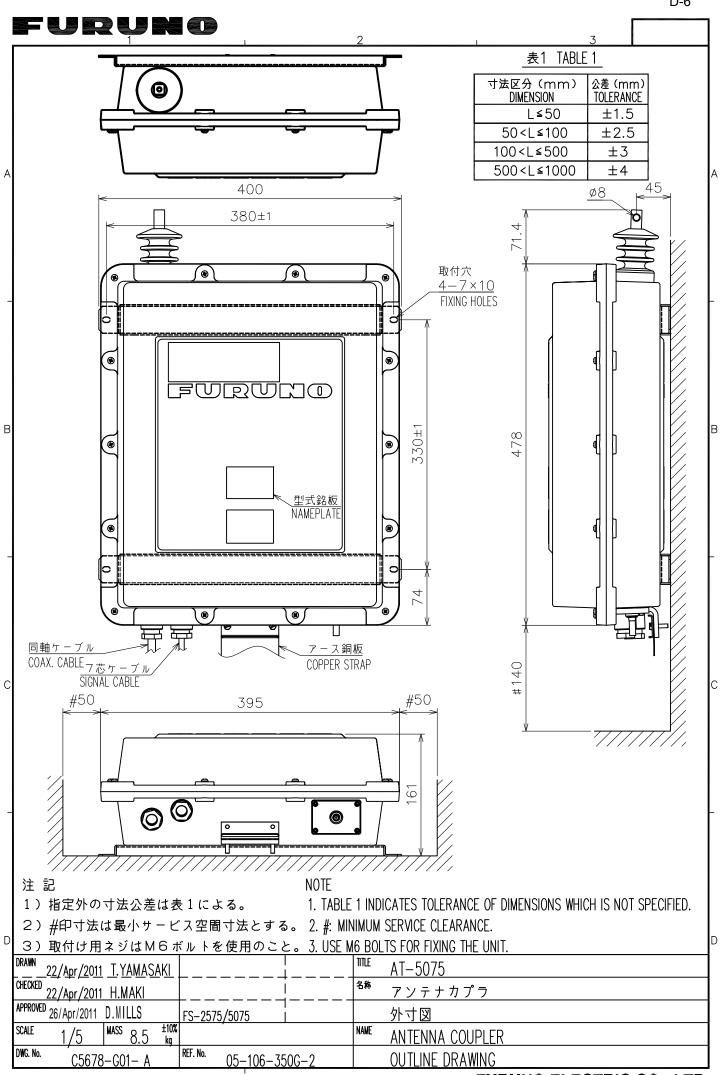


D-4

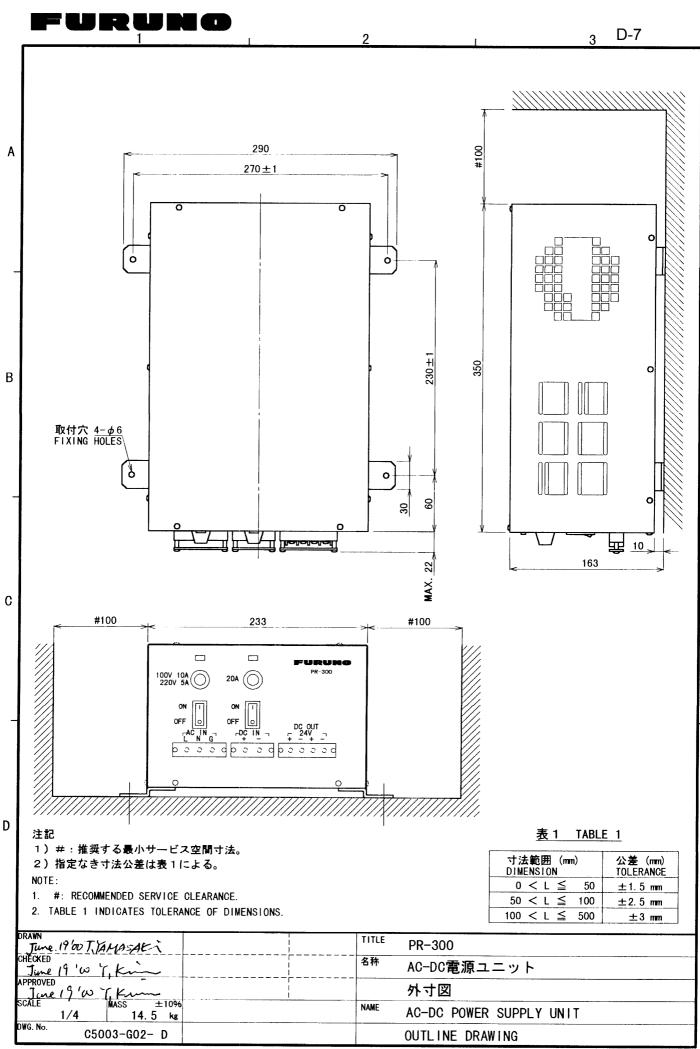


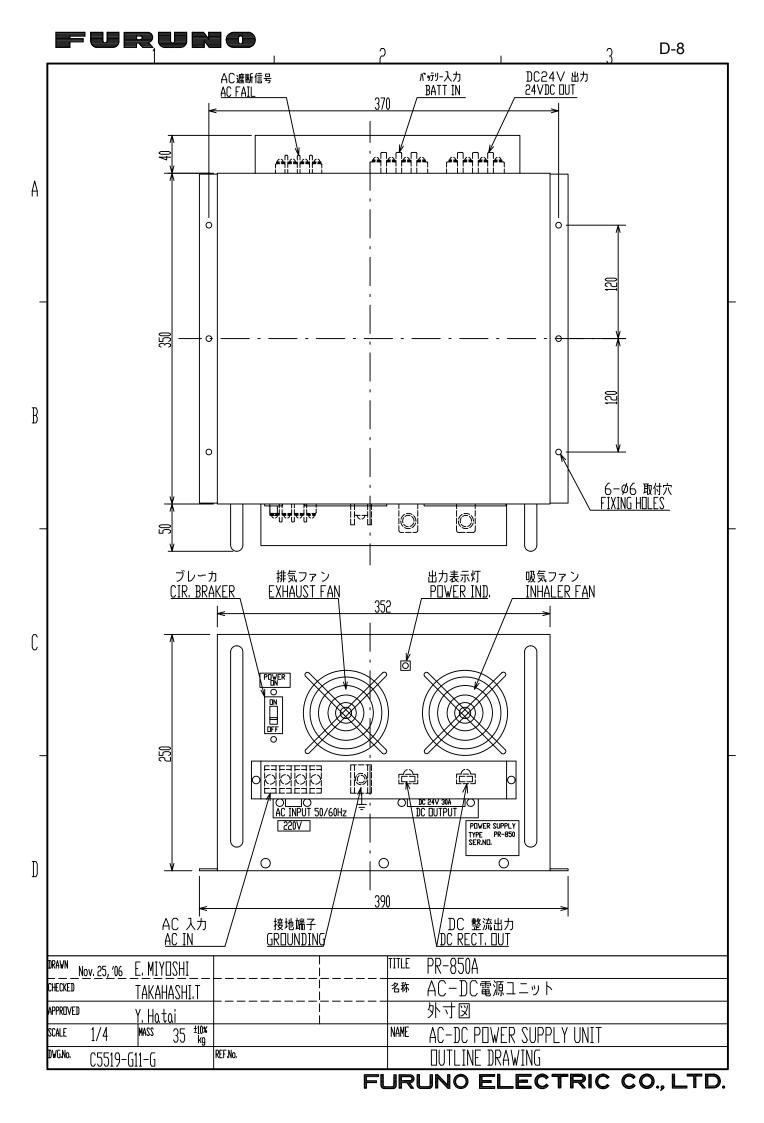


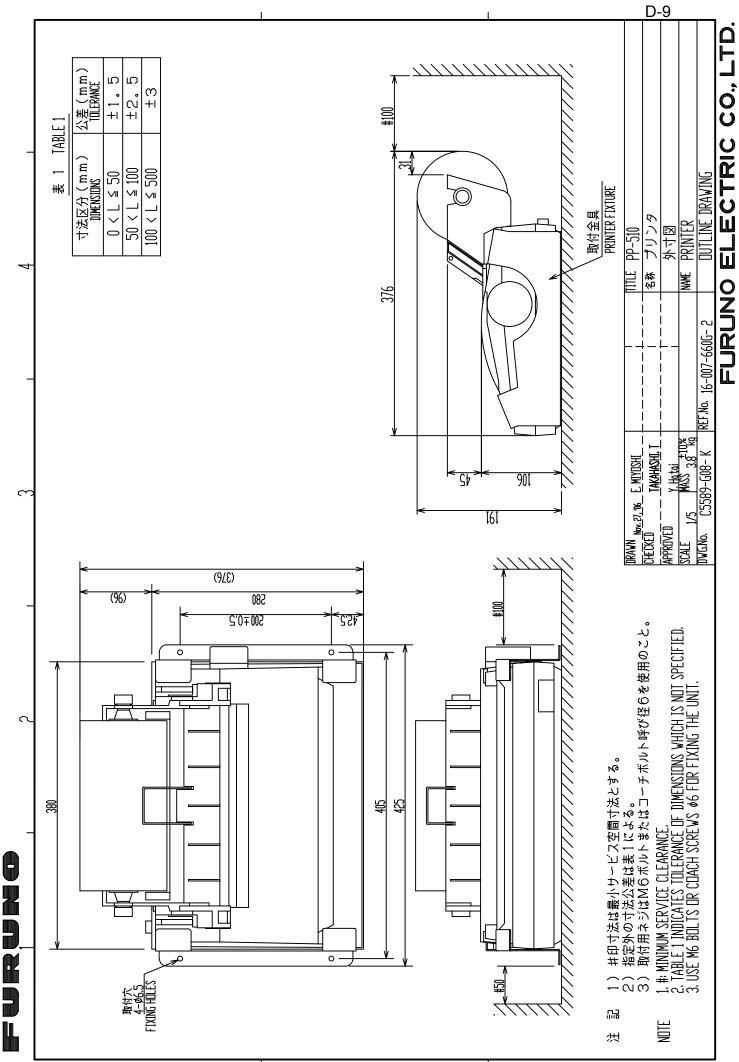




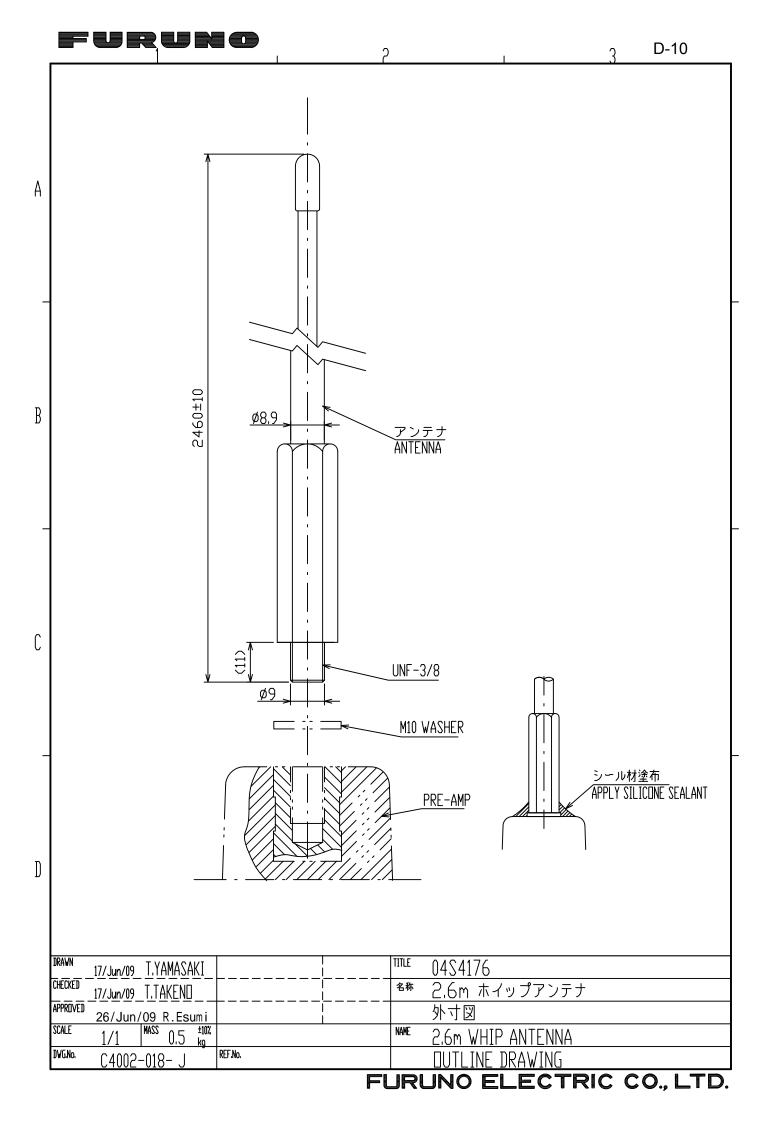
D-6

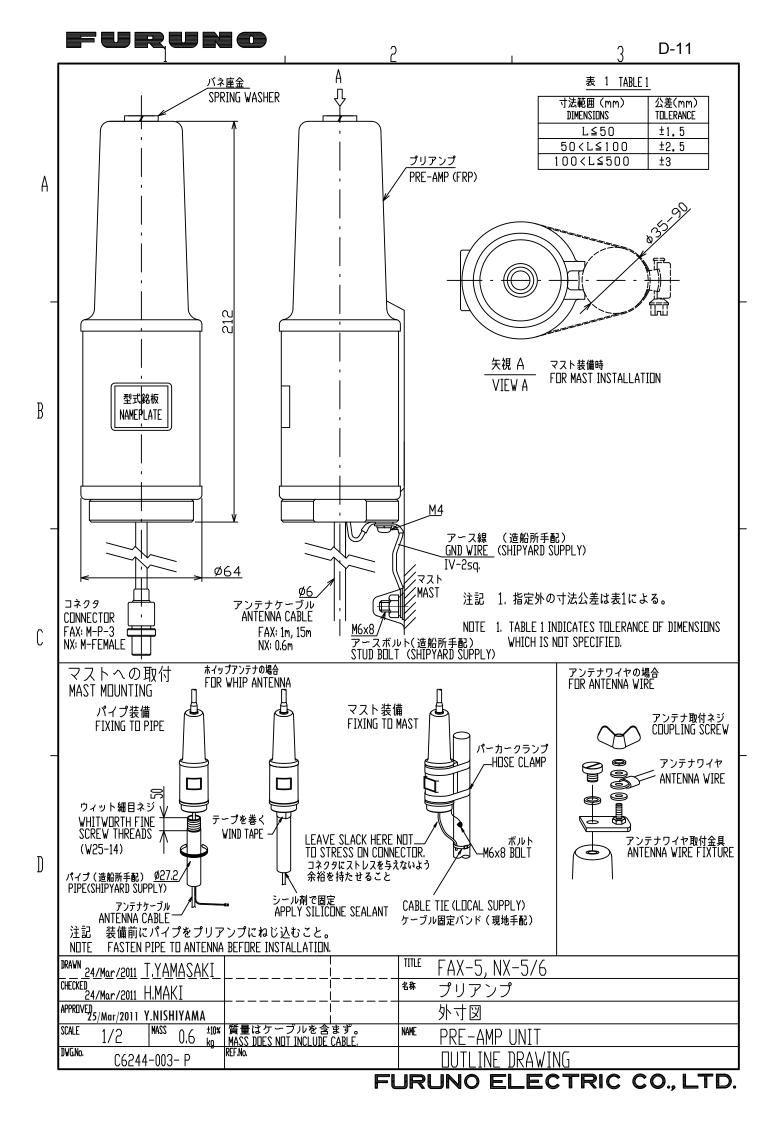






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FURUN	O ELECTRI	C CO., LTD.

NOTE 1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH	IS NOT SPECIFIED.
DRAWN Nov. 25, '06 E. MIYOSHI	TITLE SEM-21Q
	^{名称} スピーカ
APPROVED Y. Hatai	外寸図
SCALE 1/2 WASS 10x 質量は2.8mケーブルを含む 1/2 0.54 kg MASS W/2.8m CABLE	NAME LOUDSPEAKER
^{dvg,no,} C5016-G07-C (^{REF,No,}	DUTLINE DRAWING
	IDI INA EL EATRIA AA I TO

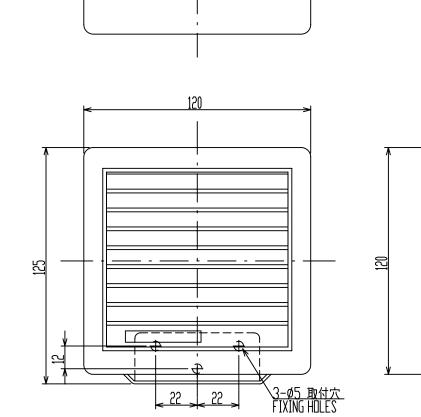
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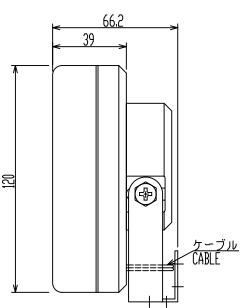
C

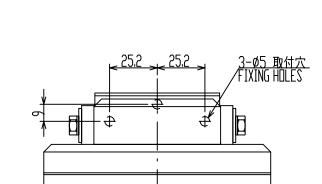
A

B



注記 1)指定外寸法公差は表1による。



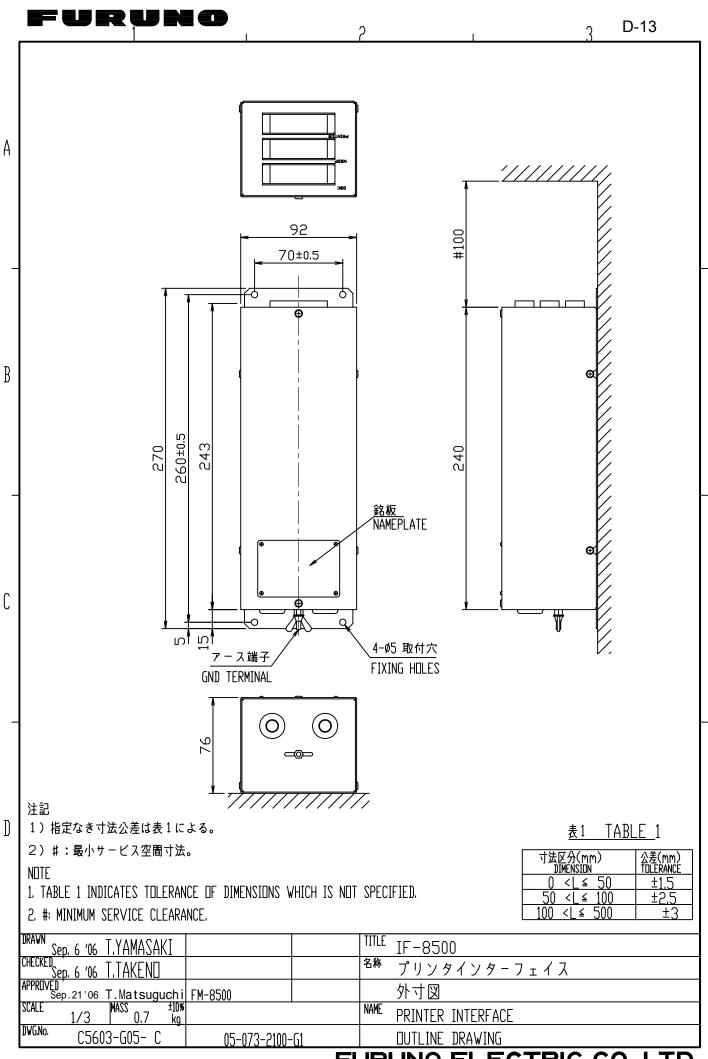


2

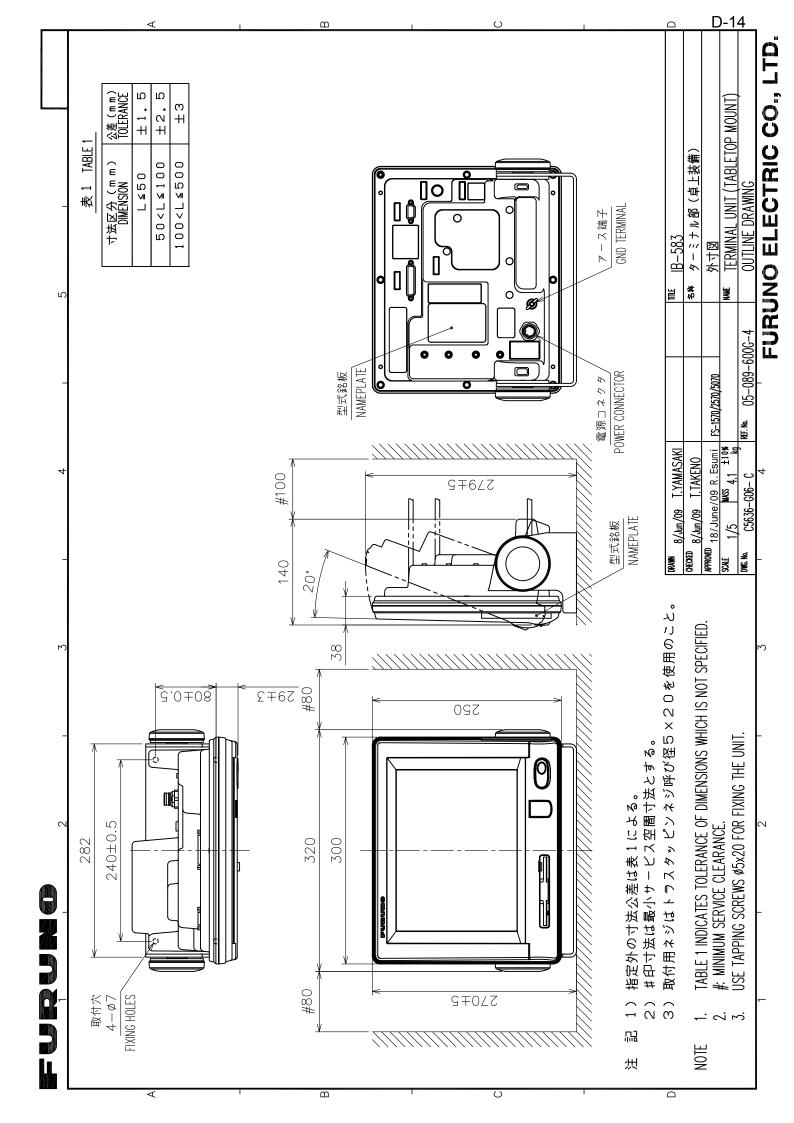
-uruno

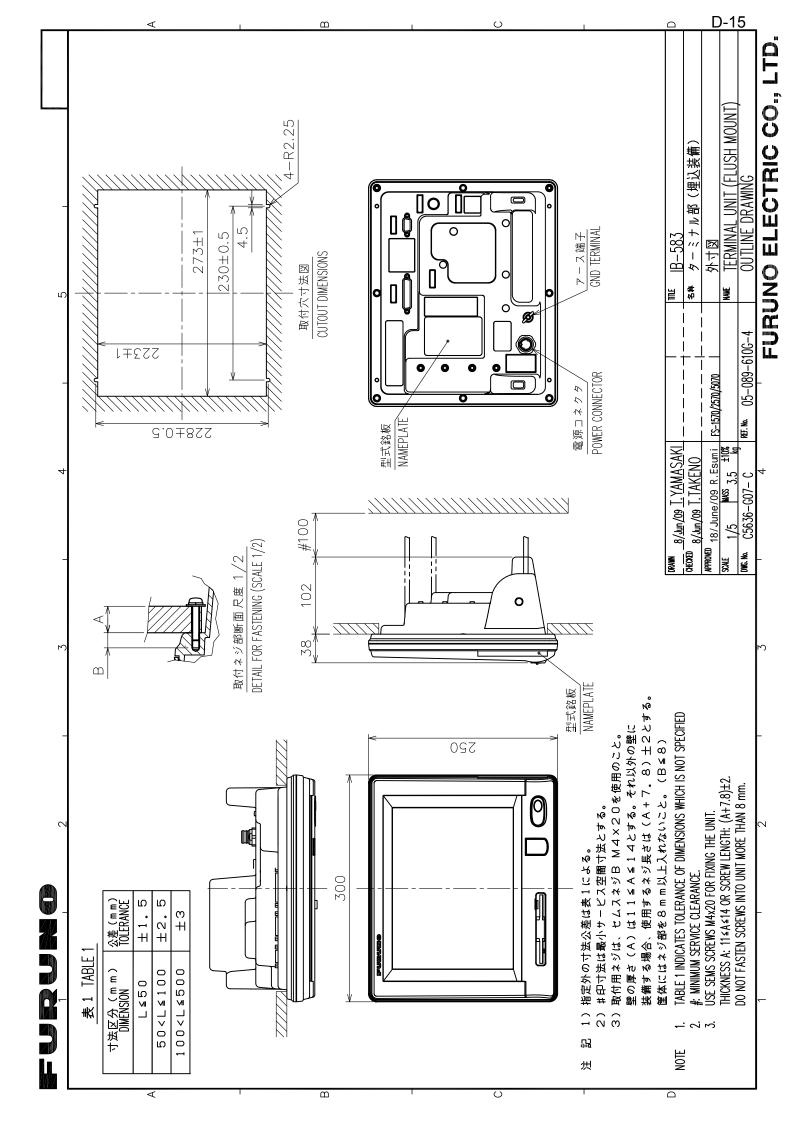
表1TABLE 1寸法区分(mm)公差(mm)DIMENSIONSTOLERANCE $0 < L \leq 50$ ±1.5 $50 < L \leq 100$ ±2.5 $100 < L \leq 500$ ±3

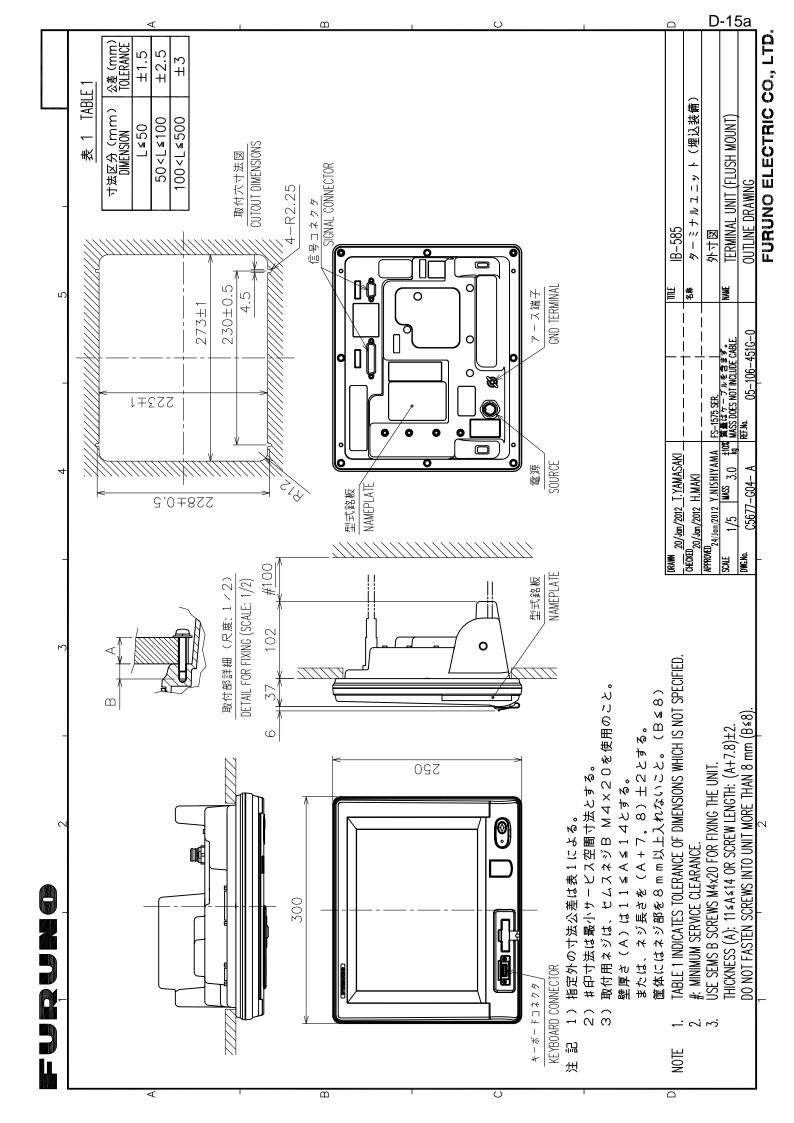
3

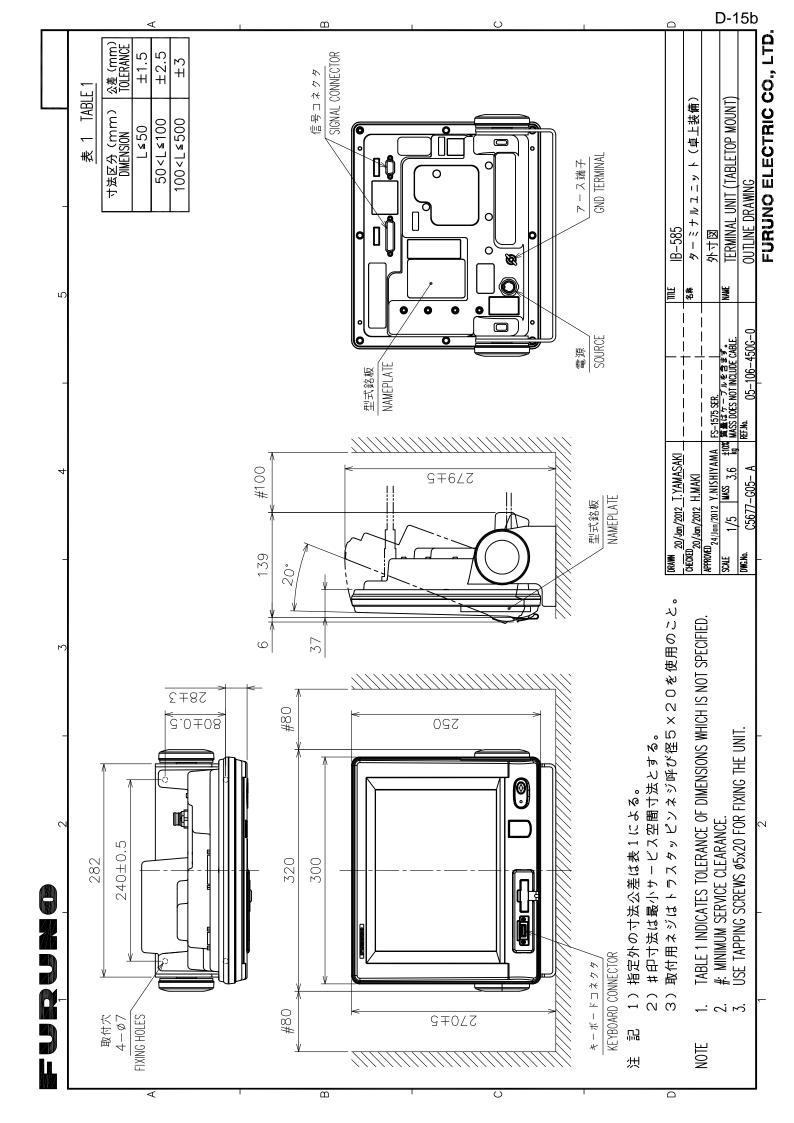


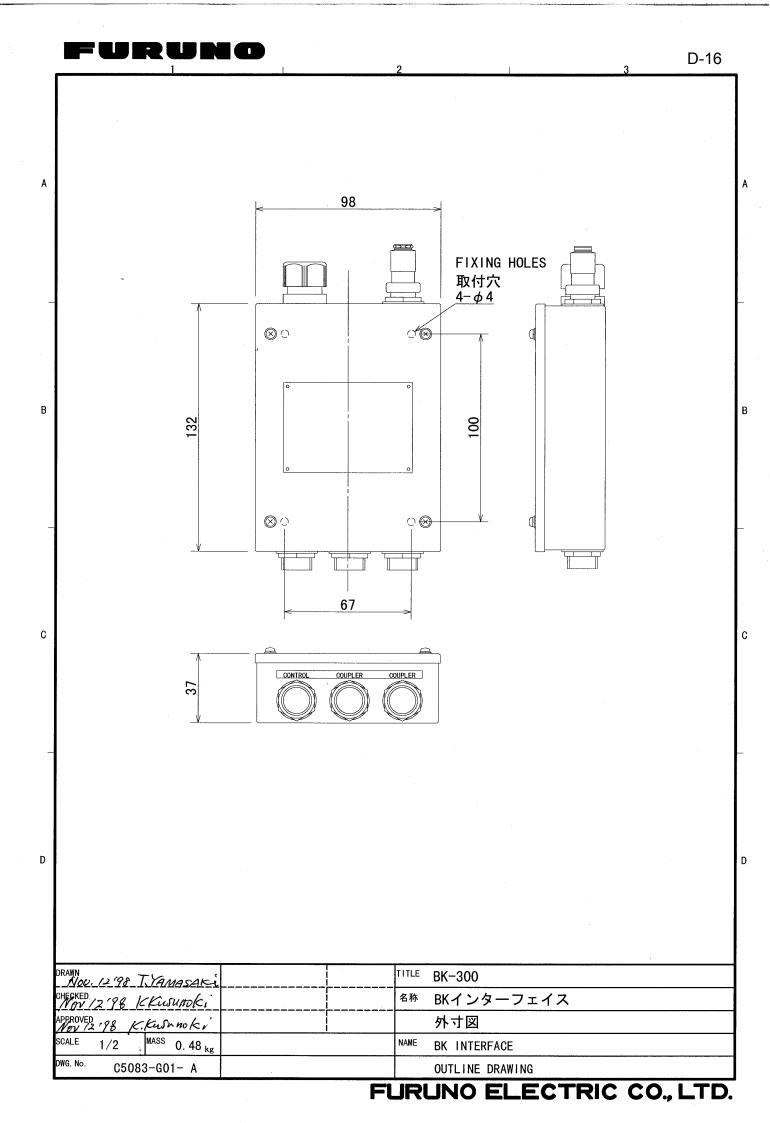
FURUNO ELECTRIC CO., LTD.

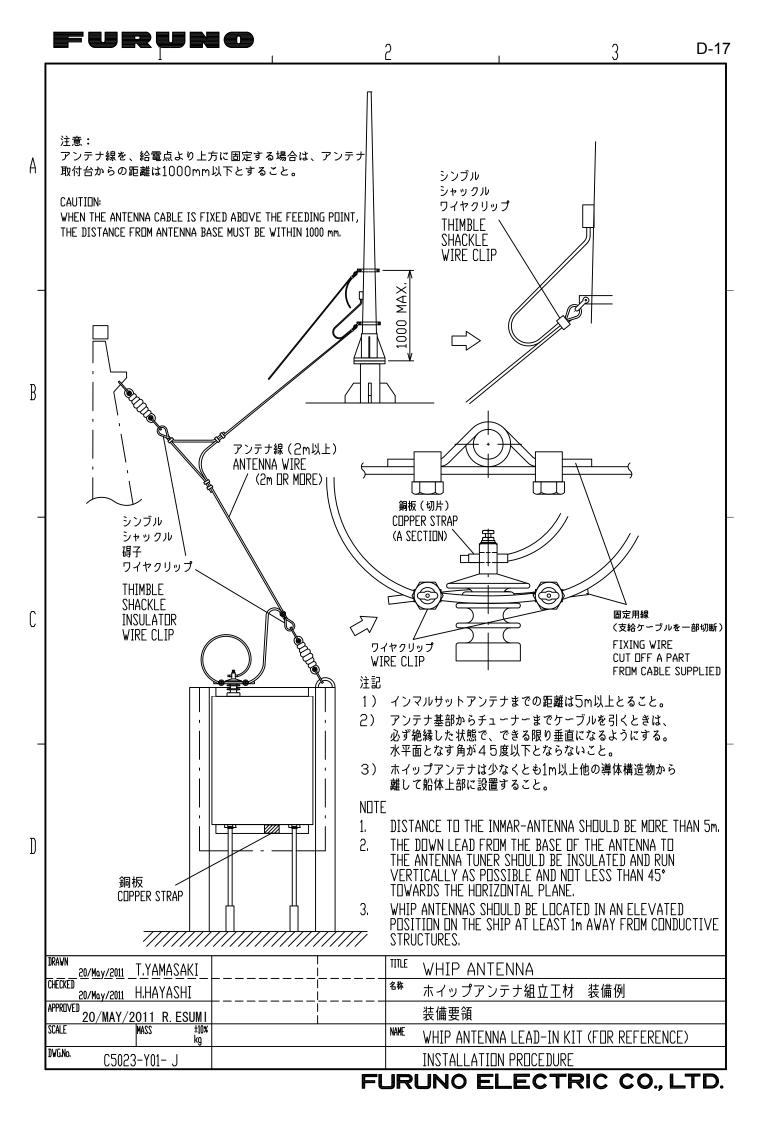


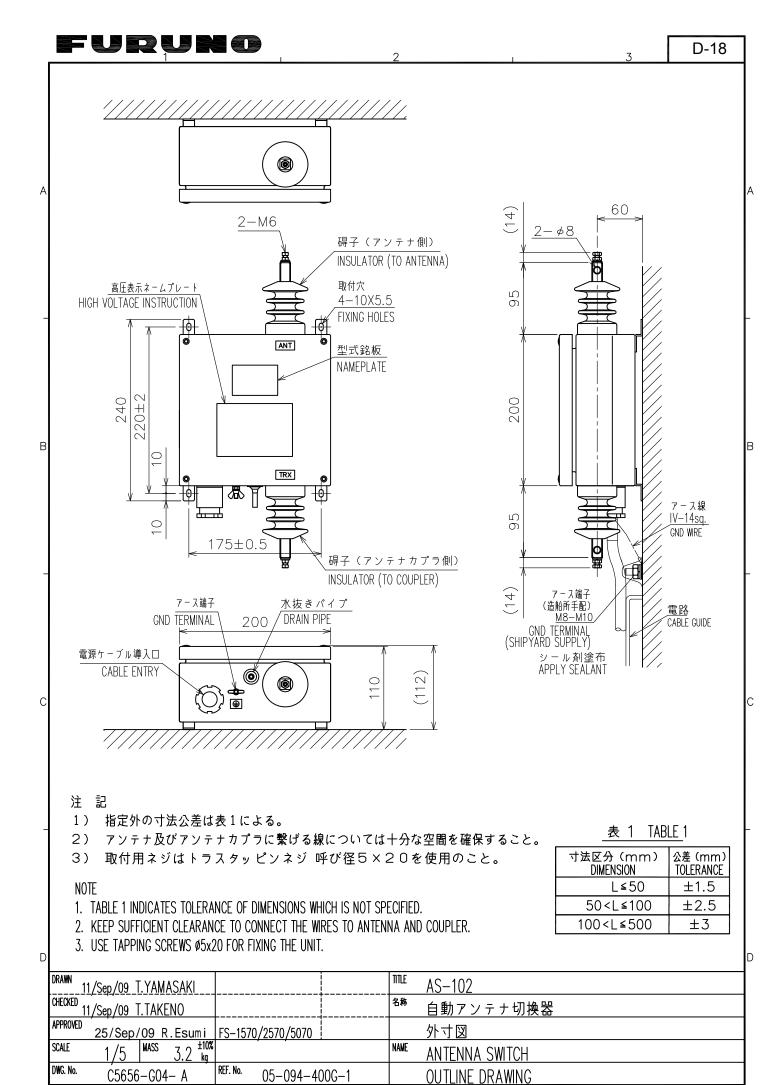




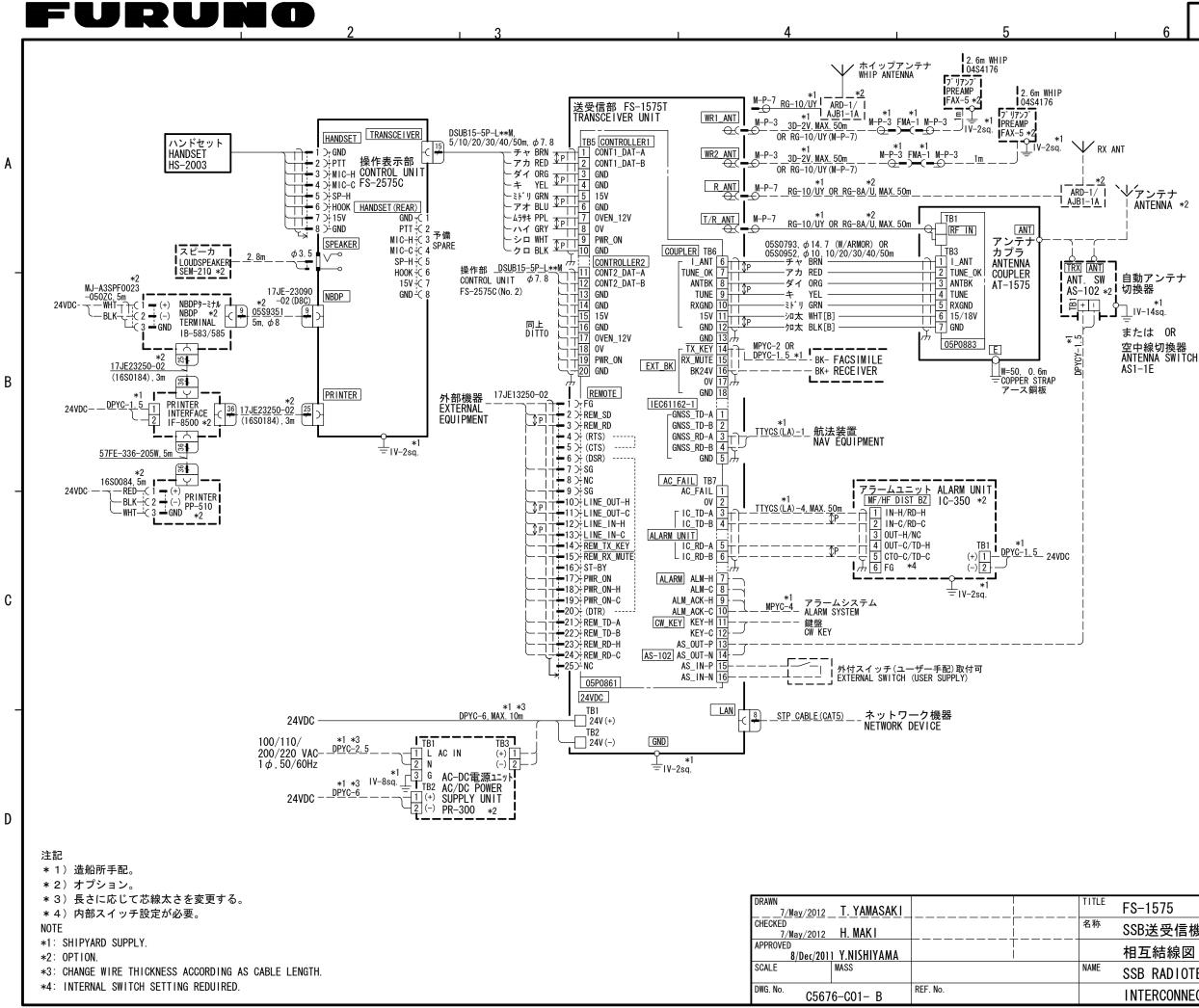






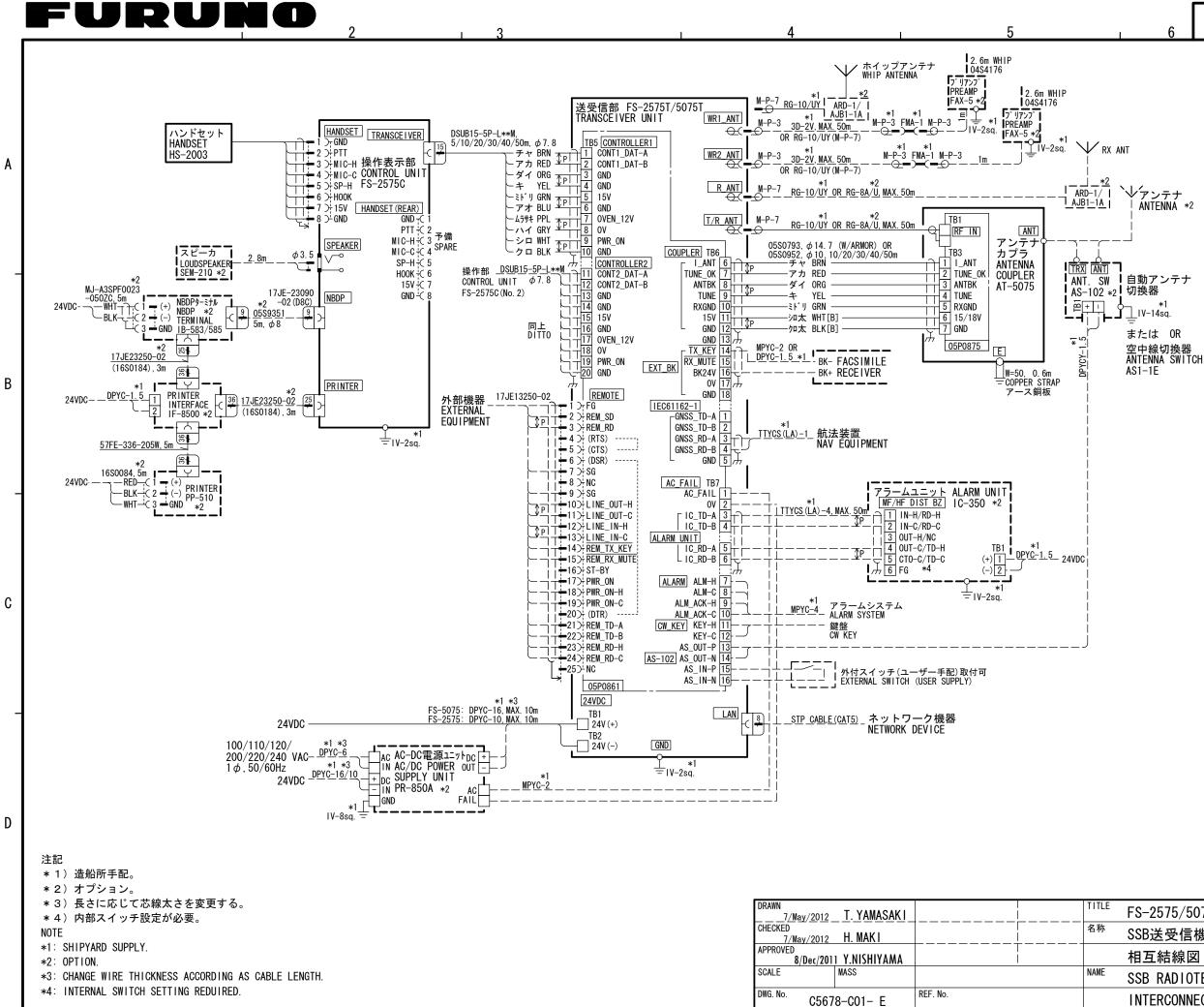


² FURUNO ELECTRIC CO., LTD.



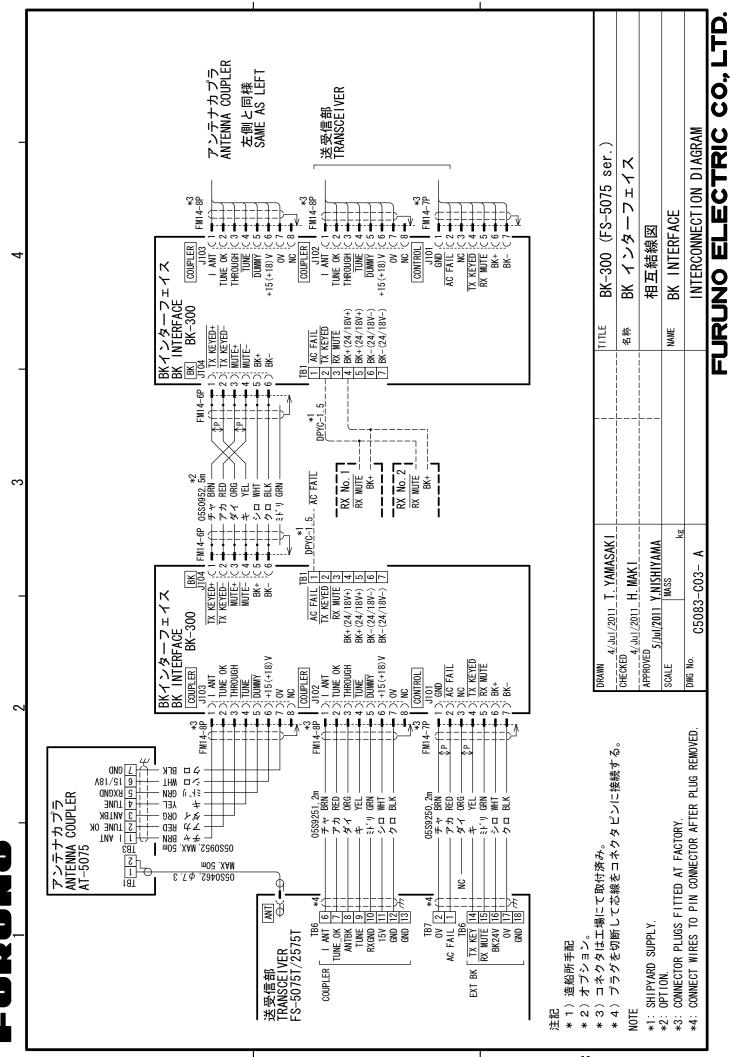
	S-1
6	5-1

	TITLE	FS-1575
	名称	SSB送受信機
		相互結線図
	NAME	SSB RADIOTELEPHONE
		INTERCONNECTION DIAGRAM
Fl	JRL	JNO ELECTRIC CO., LTD.



	S-2
ı 6	

TITLE	FS-2575/5075
名称	SSB送受信機
	相互結線図
NAME	SSB RADIOTELEPHONE
	INTERCONNECTION DIAGRAM



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S-3